

# DATA SHEET

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## Name of Medicine

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GANFORT<sup>®</sup> 0.3/5 (bimatoprost 0.3 mg/mL and timolol (as maleate) 5.0 mg/mL) eye drops

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## Presentation

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GANFORT<sup>®</sup> 0.3/5 is a combination eye drop containing bimatoprost and timolol maleate. Bimatoprost is a synthetic prostamide analogue for ophthalmic use. It is a white to off-white powder and is very soluble in ethyl alcohol, methyl alcohol and slightly soluble in water. Timolol maleate is a non-selective beta-adrenergic receptor blocking agent. It is a white, odourless, crystalline powder which is soluble in water, methanol and alcohol.

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## Uses

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### Actions

Pharmacotherapeutic group: Antiglaucoma preparations and miotics; other antiglaucoma preparations.

GANFORT<sup>®</sup> 0.3/5 consists of two active substances: bimatoprost and timolol maleate. These two components decrease elevated intraocular pressure (IOP) by complementary mechanisms of action and the combined effect results in additional IOP reduction compared to either compound administered alone. GANFORT<sup>®</sup> 0.3/5 has a rapid onset of action.

### Bimatoprost

Bimatoprost is a synthetic prostamide analogue with potent ocular hypotensive activity. It selectively mimics the effects of a naturally occurring substance, prostamide. Prostamide is biosynthesised from anandamide by a pathway involving COX-2 but not COX-1, suggesting a new pathway that leads to the synthesis of endogenous lipid amides that lower IOP. Bimatoprost and prostamides differ from prostaglandins (PGs) in that prostamides are biosynthesised from a different precursor, anandamide; bimatoprost does not stimulate any previously described prostanoid receptor; it is not mitogenic; it does not contract the human uterus; and it is electrochemically neutral.

Bimatoprost reduces IOP in man by increasing aqueous humor outflow through the trabecular meshwork and enhancing uveoscleral outflow. Reduction of the IOP starts approximately 4 hours after the first administration and maximum effect is reached within approximately 8 to 12 hours. The duration of effect is maintained for at least 24 hours.

Clinical studies have shown mean IOP decreases of up to 9 mmHg.

### Timolol

Timolol maleate is a nonselective beta-adrenergic receptor blocking agent that does not have significant intrinsic sympathomimetic, direct myocardial depressant or local anaesthetic (membrane stabilising) activity. Timolol maleate combines reversibly with a part of the cell membrane, the beta-adrenergic receptor, and thus inhibits the usual biological response that would occur with stimulation of that receptor. The specific competitive antagonism blocks stimulation of the beta-adrenergic receptors by catecholamines having beta-adrenergic stimulating (agonist) activity, whether these originate from an endogenous or exogenous source. Reversal of this blockade can be accomplished by increasing the concentration of the agonist, which will restore the usual biological response.

The precise mechanism of action of timolol maleate in lowering IOP is not clearly established at this time, although a fluorescein study and tonography studies indicate that its predominant action may be related to reduced aqueous formation. However, in some studies a slight increase in outflow facility was also observed.

## **Pharmacokinetics**

### **GANFORT® 0.3/5**

Plasma bimatoprost and timolol concentrations were determined in a crossover study comparing the monotherapy treatments to GANFORT® 0.3/5 treatment in healthy subjects. Systemic absorption of the individual components was minimal and not affected by co-administration in a single formulation.

In two 12-month studies where systemic absorption was measured, no accumulation was observed with either of the individual components.

### **Bimatoprost**

Bimatoprost penetrates the human cornea and sclera *in vitro*.

After once daily ocular administration of one drop of 0.03% bimatoprost to both eyes of 15 healthy subjects for two weeks, blood concentrations peaked within 10 minutes after dosing and declined to below the lower limit of detection (0.025 ng/mL) within 1.5 hours after dosing. Mean bimatoprost  $C_{max}$  values were similar on days 7 and 14 at 0.0721 and 0.0822 ng/mL respectively. The mean  $AUC_{0-24hr}$  values were also similar on days 7 and 14 at 0.0742 and 0.096 ng.hr/mL respectively, indicating that a steady systemic exposure to bimatoprost was reached during the first week of ocular dosing. The systemic exposure of bimatoprost is very low with no accumulation over time.

Bimatoprost is moderately distributed into body tissues with a steady state systemic volume of distribution in humans of 0.67 L/kg. In human blood, bimatoprost resides mainly in the plasma. The plasma protein binding of bimatoprost is approximately 90%.

Data from *in vitro* studies showed that the overall extent of melanin binding was not dependent on concentration and the binding was reversible.

Bimatoprost is the major circulating species in the blood once it reaches the systemic circulation following ocular dosing in humans. Bimatoprost then undergoes oxidation, N-deethylation and glucuronidation to form a diverse variety of metabolites.

Bimatoprost is eliminated primarily by renal excretion. Up to 67% of an intravenous dose of radiolabelled bimatoprost administered to healthy volunteers was excreted in the urine, 25% of the dose was excreted via the faeces. The elimination half-life, determined after intravenous administration, was approximately 45 minutes, the total blood clearance of unchanged bimatoprost was 1.5 L/hr/kg.

After twice daily dosing, the mean  $AUC_{0-24hr}$  value of 0.0634 ng.hr/mL for bimatoprost in the elderly (subjects 65 years or older) was statistically significantly higher than that of 0.0218 ng.hr/mL in young healthy adults, suggesting the existence of an age effect. However, this finding is not clinically relevant as systemic exposure for elderly and young subjects remained very low from ocular dosing. There was no accumulation of bimatoprost in the blood over time and the safety profile was similar in elderly and young patients.

### **Timolol**

After ocular administration of a 0.25% eye drop to humans, peak timolol concentration in the aqueous humor was 1.56 µg/mL at 1 hour post dose. The half-life of timolol in plasma is about 7 hours. Timolol is partially metabolised by the liver with timolol and its metabolites excreted by the kidney. Timolol is not extensively bound to plasma.

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## Indications

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GANFORT® 0.3/5 eye drops are indicated for the reduction of intraocular pressure (IOP) in patients with chronic open-angle glaucoma or ocular hypertension who are insufficiently responsive to monotherapy.

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## Clinical Studies

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Elevated IOP presents a major risk factor in the pathogenesis of glaucomatous visual field loss. The higher the level of IOP, the greater the likelihood of optic nerve damage and glaucomatous visual field loss. Bimatoprost has the action of lowering IOP with no clinically relevant effects on heart rate and blood pressure observed in clinical trials. Timolol decreases aqueous humor production with little or no significant effect on episcleral venous pressure, outflow facility or uveoscleral outflow.

In four well controlled, double blind, 3-arm, parallel group studies the IOP reducing effect of GANFORT® 0.3/5 was compared with bimatoprost and timolol monotherapy. The mean decreases from the baseline in IOP were statistically significant within each treatment group at all timepoints ( $p < 0.01$ ). In the pooled analysis of 2 studies identical in design decreases of up to 9.6 mmHg are seen in the GANFORT® 0.3/5 group compared with a maximum 8.8 mmHg in the bimatoprost group.

Responder rates using 18 mmHg as the reference point showed statistically significantly more patients treated with GANFORT® 0.3/5 achieved mean diurnal IOP < 18 mmHg at all visits throughout the 12-month study period when compared with bimatoprost monotherapy and with timolol monotherapy (see Table 1 below).

**Table 1: Pooled 12-month Studies: Incidence of patients achieving mean diurnal IOP < 18 mmHg at all visits**

| Mean Diurnal IOP       | GANFORT® 0.3/5<br>N = 533 | Bimatoprost<br>N = 265  | Timolol<br>N = 263      |
|------------------------|---------------------------|-------------------------|-------------------------|
| <18 mmHg at all visits | 232 (43.5%)               | 95 (35.8%) <sup>a</sup> | 49 (18.6%) <sup>b</sup> |

<sup>a</sup>  $p = 0.021$  <sup>b</sup>  $p < 0.001$

The IOP lowering effect of GANFORT® 0.3/5 was maintained over a 12 month period.

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## Dosage and Administration

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The recommended dose is one drop of GANFORT® 0.3/5 in the affected eye(s) once daily, administered in the morning.

In order to minimise systemic absorption of GANFORT® 0.3/5 eye drops, apply pressure to the tear duct immediately following administration of the drug.

As with all eye drops containing benzalkonium chloride as a preservative, there is potential for incompatibility with other topical ophthalmic medications. If more than one topical ophthalmic drug is to be used, other eye drops should not be used within five to ten minutes of using GANFORT® 0.3/5 eye drops.

**Paediatric Use:** Safety and effectiveness in paediatric patients have not been established.

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## Contraindications

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GANFORT® 0.3/5 eye drops are contraindicated in patients with hypersensitivity to any component of this medication, in patients with bronchospasm, bronchial asthma or patients with a history of bronchial asthma, or severe chronic obstructive pulmonary disease, in patients with sinus bradycardia, second or third degree atrioventricular block, overt cardiac failure or cardiogenic shock.

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## Warnings and Precautions

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### **General:**

Like other topically applied ophthalmic agents, GANFORT® 0.3/5 may be absorbed systemically. No enhancement of the systemic absorption of the individual active substances has been observed.

Due to the beta-adrenergic component, timolol, the same types of cardiovascular and pulmonary adverse reactions as seen with systemic beta-blockers may occur.

Caution should be exercised in treating patients with severe or unstable and uncontrolled cardiovascular disease. Cardiac failure should be adequately controlled before beginning GANFORT® 0.3/5 therapy. Patients with a history of severe cardiac disease should be watched for signs of cardiac failure and have their pulse rates checked. Cardiac and respiratory reactions, including death due to bronchospasm in patients with asthma, and, rarely, death in association with cardiac failures have been reported following administration of timolol maleate.

GANFORT® 0.3/5 has not been studied in patients with hepatic or renal impairment. Therefore caution should be used in treating such patients.

Patients should be advised that if they develop an intercurrent ocular condition (e.g. trauma, ocular surgery or infection) or any ocular reactions, particularly conjunctivitis and lid reactions, they should immediately seek their doctor's advice concerning the continued use of the product.

Beta-blockers may also mask the signs of hyperthyroidism and cause worsening of Prinzmetal angina, severe peripheral and central circulatory disorders and hypotension.

Patients who are already receiving a beta-adrenergic blocking agent orally and who are given timolol should be observed for a potential additive effect either on the IOP or on the known systemic effects of beta-blockade. The use of two topical beta-adrenergic blocking agents is not recommended.

GANFORT® 0.3/5 should not be used alone in the treatment of acute angle-closure glaucoma.

Choroidal detachment has been reported with administration of aqueous suppressant therapy (e.g. timolol, acetazolamide) after filtration procedures.

While taking beta-blockers, patients with a history of atopy or a history of severe anaphylactic reaction to a variety of allergens may be more reactive to repeated accidental, diagnostic or therapeutic challenge with such allergens. Such patients may be unresponsive to the usual dose of adrenaline used to treat anaphylactic reactions.

Beta-adrenergic blocking agents should be administered with caution in patients subject to spontaneous hypoglycaemia or to diabetic patients (especially those with labile diabetes) as beta-blockers may mask the signs and symptoms of acute hypoglycaemia.

Beta-adrenergic receptor blockade impairs the ability of the heart to respond to beta-adrenergically mediated reflex stimuli. This may augment the risk of general anaesthesia in surgical procedures. In patients undergoing elective surgery, it may be necessary to gradually withdraw the beta-adrenergic receptor blocking agents. If necessary during surgery, the effects of beta-adrenergic blocking agents may be reversed by sufficient doses of adrenergic agonists.

Beta-adrenergic blockade has been reported to potentiate muscle weakness consistent with certain myasthenic symptoms (e.g. diplopia, ptosis, and generalised weakness). Timolol has been reported rarely to increase muscle weakness in some patients with myasthenia gravis or myasthenic symptoms.

Because of potential effects of beta-adrenergic blocking agents on blood pressure and pulse, these agents should be used with caution in patients with cerebrovascular insufficiency.

During treatment with GANFORT<sup>®</sup> 0.3/5, darkening of the eyelid skin and gradual increased eyelash growth (lengthening, darkening and thickening) with no consequent untoward ocular effects have been observed. Increased iris pigmentation has also been reported. The change in iris pigmentation occurs slowly and may not be noticeable for several months. After 12 months treatment with GANFORT<sup>®</sup> 0.3/5, the incidence of iris pigmentation was only 0.2%. After 12 months treatment with bimatoprost eye drops alone, the incidence was 1.5% and did not increase following 3 years treatment.

Before treatment is initiated, patients should be informed of the possibility of eyelash growth, darkening of the eyelid skin and increased iris pigmentation since these have been observed during treatment with bimatoprost. Some of these changes may be permanent, and may lead to differences in appearance between the eyes if only one eye is treated.

GANFORT<sup>®</sup> 0.3/5 has not been studied in patients with inflammatory ocular conditions, neovascular, inflammatory, angle-closure glaucoma, congenital glaucoma or narrow-angle glaucoma.

Cystoid macular oedema has not been reported with GANFORT<sup>®</sup> 0.3/5, however, it has been uncommonly reported (>0.1% to <1%) following treatment with bimatoprost. Therefore, GANFORT<sup>®</sup> 0.3/5 should be used with caution in patients with known risk factors for macular oedema (e.g. aphakic patients, pseudophakic patients with a torn posterior lens capsule).

In patients with a history of mild liver disease or abnormal alanine aminotransferase (ALT), aspartate aminotransferase (AST) and/or bilirubin at baseline, bimatoprost had no adverse reactions on liver function over 24 months. There are no known adverse reactions of ocular timolol on liver function.

### ***Preclinical Findings:***

GANFORT® 0.3/5: Repeated dose toxicity studies on GANFORT® 0.3/5 showed no special hazard for humans. The ocular and systemic safety profile of the individual components is well established.

Bimatoprost: Ocular administration of bimatoprost in monkeys at concentrations of 0.03% or 0.1% once or twice daily for 1 year caused an increase in iris pigmentation and reversible dose-related periocular effects characterised by a prominent upper and/or lower sulcus and widening of the palpebral fissure. No associated increase in melanocyte number was observed with the pigmentation. It appears that the mechanism of increased iris pigmentation is due to increased stimulation of melanin production in melanocytes and not to an increase in melanocyte number.

Periocular effects were also observed in an intravenous toxicity study at systemic exposures at least 235-fold higher than that observed in humans after ocular administration. No functional or microscopic changes related to the periocular effects were observed. The mechanism of action for the observed periocular changes is unknown.

### **Carcinogenicity and Mutagenicity:**

Bimatoprost: The carcinogenic potential of orally administered (gavage) bimatoprost was evaluated in mice given 0.3, 1.0 or 2.0 mg/kg/day and in rats given 0.1, 0.3 or 1.0 mg/kg/day for 104 weeks. There was no evidence of tumorigenic potential at any of the administered dosages in either species. In the rat carcinogenicity study, a dose-related increase in vacuolated corpora lutea was observed. The ovarian effects in rats is believed to be species specific.

Bimatoprost was not mutagenic or clastogenic in a bacterial mutation assay, in a mouse lymphoma test *in vitro* or in a mouse micronucleus test.

Timolol: In a two-year study of timolol maleate in rats, there was a statistically significant increase in the incidence of adrenal pheochromocytomas in male rats dosed orally at 300 mg/kg/day, but not at 100 mg/kg/day (approximately 1000 times the maximum recommended ophthalmic dose in humans on a "mg/m<sup>2</sup>" basis). In a long term study in mice, there were statistically significant increases in the incidence of benign and malignant pulmonary tumours, benign uterine polyps and mammary adenocarcinomas in female mice dosed orally at 500 mg/kg/day, but not at 50 mg/kg/day (approximately 300 times the maximum recommended ophthalmic dose in humans on a "mg/m<sup>2</sup>" basis). In a subsequent study in female mice, in which post-mortem examinations were limited to the uterus and the lungs, a statistically significant increase in the incidence of pulmonary tumours was again observed at 500 mg/kg/day. The increased occurrence of mammary adenocarcinomas in female mice was associated with elevations in serum prolactin. An increased incidence of mammary adenocarcinomas in rodents has been associated with administration of several other therapeutic agents that elevate serum prolactin, but no correlation between serum prolactin levels and mammary tumours has been established in humans. In adult women who received oral treatment with timolol maleate at doses up to 60 mg (the maximum recommended human oral dosage), there were no clinically meaningful changes in serum prolactin.

Both *in vitro* and *in vivo* studies (Ames test, neoplastic cell transformation assay, cytogenetic assay and micronucleus test in mice) showed no genotoxicity of timolol.

**Impairment of Fertility:**

Bimatoprost did not affect fertility in male or female rats at oral doses up to 0.6 mg/kg/day (approximately 103 times the intended human exposure).

Reproductive toxicity studies of timolol in rats showed no adverse effects on male or female fertility at oral doses up to 100 mg/kg/day.

**Pregnancy and Lactation:**

**Pregnancy Category C:** There are no adequate data on the use of GANFORT® 0.3/5 in pregnant women.

**Bimatoprost:** In embryo/foetal development studies in pregnant mice and rats abortion but no developmental effects were observed at doses that were at least 33 or 97 times higher, respectively, than the intended human exposure. In peri/postnatal studies in rats, reduced gestation time, foetal death and decreased pup body weights were observed in dams given  $\geq 0.3$  mg/kg/day (a rodent-specific pharmacological effect; systemic exposure estimated to be at least 41 times the intended human exposure). This maternal toxicity likely resulted in decreased mating performance and gestational body weight gain in the offspring, but neurobehavioural functions were not affected.

**Timolol:** Timolol was not teratogenic in mice, rats or rabbits at oral doses up to 50 mg/kg/day (over 300 times the maximum recommended clinical dose on a "mg/m<sup>2</sup>" basis), although delayed fetal ossification was observed at this dose in rats. At higher doses, there were increases in resorptions and fetal variations (14 ribs and hypoplastic sternbrae) in mice (1000 mg/kg/day), increased resorptions in rabbits ( $\geq 90$  mg/kg/day), and a decreased number of caudal vertebral bodies and arches as well as an increase in hypoplastic sternbrae in rats (500 mg/kg/day).

Epidemiological studies suggest that owing to their pharmacological effects beta-blockers may reduce placental perfusion, which may result in intrauterine growth retardation, premature delivery, or foetal death. In addition, undesirable effects (e.g. bradycardia and hypoglycaemia) may occur in the foetus and the neonate. There is also an increased risk of cardiac and pulmonary complications in a neonate that has been exposed to a beta-blocker.

Consequently, GANFORT® 0.3/5 should not be used during pregnancy unless clearly necessary.

**Use in Lactation:**

**Bimatoprost:** Bimatoprost was excreted in rat milk following PO administration. Increased pup mortality and depressed pup growth occurred when dams were treated PO with bimatoprost from gestation day 7 to lactation day 20 at  $\geq 0.3$  mg/kg/day, corresponding to exposures approximately 41 times the expected human exposure.

There are no data on the excretion of bimatoprost into human milk or on the safety of bimatoprost exposure in infants.

**Timolol:** Timolol is excreted in human milk and there is potential for serious adverse reactions from timolol in breastfed infants. Therefore, nursing women who use GANFORT® 0.3/5 should stop breast feeding.

**Effects on ability to drive and use machines:**

GANFORT® 0.3/5 has negligible influence on the ability to drive and use machines. As with any ocular treatment, if transient blurred vision occurs at instillation, the patient should wait until the vision clears before driving or using machinery.

**Information for patients:**

The preservative in GANFORT® 0.3/5 eye drops, benzalkonium chloride, may be absorbed by soft contact lenses. Patients wearing soft contact lenses should be instructed to wait at least 15 minutes after using GANFORT® 0.3/5 eye drops to insert soft contact lenses.

To avoid contamination of the solution, keep container tightly closed. Do not touch dropper tip to any surface. Discard contents 4 weeks after opening the bottle. Contents are sterile if seal is intact.

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**Adverse Effects**

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No adverse drug reactions (ADR's) specific for GANFORT® 0.3/5 have been observed in clinical studies. The ADR's have been limited to those earlier reported for bimatoprost and timolol.

The majority of ADR's were ocular, mild in severity and none were serious. Based on 12 month clinical data, the most commonly reported ADR in the GANFORT® 0.3/5 group was conjunctival hyperaemia in approximately 26% of patients and led to a discontinuation rate of 1.5% in patients. The conjunctival hyperaemia was mostly trace to mild and thought to be of a non-inflammatory nature.

The most common adverse events in the bimatoprost group were conjunctival hyperaemia (approximately 43% of patients), eye pruritus (approximately 9% of patients) and blepharal pigmentation (approximately 9% of patients) leading to discontinuation in 4.2%, 0.8% and 1.9% respectively. The most common adverse events in the timolol group were burning sensation in the eye (approximately 10% of patients), conjunctival hyperaemia (approximately 9% of patients) and stinging sensation in the eye (approximately 5% of patients) leading to no discontinuations.

In the 12 month studies, discontinuations due to adverse events occurred in 6.9% of patients in the GANFORT® 0.3/5 group compared with 9.8% in the bimatoprost group and 3.4% in the timolol group.

The following adverse drug reactions were reported during clinical trials with GANFORT® 0.3/5 eye drops:

*Ocular effects*

Very Common (>1/10): conjunctival hyperaemia, growth of eyelashes

Common (>1/100, <1/10): burning sensation, eye pruritus, superficial punctate keratitis, eye dryness, foreign body sensation, stinging sensation in the eye, eyelid erythema, photophobia, eye pain, eye discharge, eyelid pruritus, visual disturbance, corneal erosion

Uncommon (>1/1000, <1/100): eye irritation, blepharitis, epiphora, iritis, eyelid oedema, eyelid pain, conjunctival oedema, asthenopia, trichiasis, visual acuity worsened

*Nervous system disorders*

Uncommon (>1/1000, <1/100): headache

*Respiratory, thoracic and mediastinal disorders*

Uncommon (>1/1000, <1/100): rhinitis

*Skin and subcutaneous tissue disorders*

Common (>1/100, <1/10): blepharal pigmentation

Uncommon (>1/1000, <1/100): hirsutism

Additional adverse events that have been seen with one of the components and may potentially occur also with GANFORT® 0.3/5:

Bimatoprost

*Ocular effects:*

Conjunctival hyperaemia, growth of eyelashes, ocular pruritus, allergic conjunctivitis, asthenopia, blepharitis, conjunctival oedema, corneal erosion, eye discharge, eyelash darkening, eyelid erythema, eyelid pruritus, eye pain, foreign body sensation, increased iris pigmentation, ocular burning, ocular dryness, ocular irritation, photophobia, pigmentation of periocular skin, superficial punctate keratitis, tearing, visual disturbance, blepharospasm, eyelid oedema, eyelid retraction, iritis, retinal haemorrhage and worsening of visual acuity.

*Systemic effects:* Asthenia, headache, infection (primarily colds and upper respiratory tract infections), depression and vertigo.

Timolol

*Ocular effects:*

Blepharoptosis, decreased corneal sensitivity, diplopia, ptosis and choroidal detachment following filtration surgery.

*Systemic effects:*

Bradycardia, arrhythmia, hypotension, syncope, heart block, cerebrovascular accident, cerebral ischaemia, cardiac arrest, oedema, claudication, Raynaud's phenomenon, cold hands and feet, bronchospasm (predominantly in patients with pre-existing bronchospastic disease), exacerbation of asthma, respiratory failure, dyspnoea, cough, fatigue, chest pain, alopecia, psoriasiform rash or exacerbation of psoriasis, signs and symptoms of allergic reactions including angioedema, urticaria, localised and generalised rash, insomnia, nightmares, memory loss, increase in signs and symptoms of myasthenia gravis, paraesthesia, nausea, diarrhoea, dyspepsia, decreased libido, Peyronie's disease, systemic lupus erythematosus and tinnitus.

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## Interactions

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Specific drug interaction studies have not been conducted with GANFORT® 0.3/5 eye drops.

There is a potential for additive effects resulting in hypotension, and/or marked bradycardia when eye drops containing timolol are administered concomitantly with oral calcium channel blockers, guanethidine, or beta-blocking agents, anti-arrhythmics, digitalis glycosides or parasympathomimetics.

The hypertensive reaction to sudden withdrawal of clonidine can be potentiated when taking beta-blockers.

Potentiated systemic beta-blockade (e.g. decreased heart rate) has been reported during combined treatment with quinidine and timolol, possibly because quinidine inhibits the metabolism of timolol via the P450 enzyme, CYP2D6.

Although timolol used alone has little or no effect on pupil size, mydriasis resulting from concomitant therapy with timolol and epinephrine has been reported occasionally.

Beta-blockers may increase the hypoglycaemic effect of antidiabetic agents. Beta-blockers can mask the signs and symptoms of hypoglycaemia.

Close observation of the patient is recommended when a beta-blocker is administered to patients receiving catecholamine-depleting drugs such as reserpine because of possible additive effects and the production of hypotension and/or marked bradycardia, which may result in vertigo, syncope, or postural hypotension.

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## Overdosage

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No case of overdose has been reported with GANFORT® 0.3/5 and is unlikely to occur after ocular administration.

### Bimatoprost

Systemic overdose resulting from accidental ingestion: If GANFORT® 0.3/5 is accidentally ingested, the following information may be useful: in two-week oral rat and mouse studies, doses of bimatoprost up to 100 mg/kg/day did not produce any toxicity. This dose expressed as mg/m<sup>2</sup> is at least 70-times higher than the accidental dose of one bottle of GANFORT® 0.3/5 in a 10 kg child.

### Timolol

Symptoms of systemic timolol overdose are: bradycardia, hypotension, bronchospasm, and cardiac arrest. A study of patients showed that timolol did not dialyse readily.

If overdosage occurs, treatment should be symptomatic and supportive.

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## Pharmaceutical Precautions

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To avoid contamination of the solution, keep container tightly closed. Do not touch dropper tip to any surface. Contents are sterile if seal is intact.

Shelf life: 2 years

Storage: Store below 25°C

Discard contents: 4 weeks after opening the bottle.

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## Medicine Classification

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Prescription Medicine

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## Package Quantities

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GANFORT<sup>®</sup> 0.3/5 (bimatoprost) 0.3 mg/mL and (timolol) 5.0 mg/mL eye drops are supplied in white opaque low density polyethylene bottles with polystyrene screw caps. Each bottle has a fill volume of 3 mL.

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## Further Information

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### *List of excipients*

PRESERVATIVE: benzalkonium chloride

INACTIVES: sodium chloride, sodium phosphate dibasic heptahydrate, citric acid monohydrate; and water - purified. Hydrochloric acid and/or sodium hydroxide may be added to adjust pH.

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## Name and Address

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## Date of Preparation

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