

Integrated Phase III Clinical Trials of Low-Concentration, Modifi Bromfenac Ophthalmic Solution Dosed Once Daily for Cataract Sur

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Abstract

Eurgose: To evaluate the efficacy and safety of low-concentration, modified bromfenac solution dosed QD for cataract surgery.

Rothosio: Subjects received either bromfenac (n=222) or placebo (n=218) QD. Dosing began 1 day before cataract surgery and continued daily through post-surgery Day 14. Primary efficacy endpoint was no ocular infammation by Day 15; secondary efficacy endpoint was no ocular pain at Day 1

Resettion Bromfenac was superior to placebo for primary and secondary efficacy endpoints (P<0.0001). Compared to placebo, bromfenac had a lower incidence of ocular adverse events

&co-choloo: Low-concentration, modified bromfenac solution dosed QD is safe and effective to treat the inflammation and pain associated with cataract surgery.

- Bromfenac is a non-steroidal anti inflammatory drug (NSAID) with an extensive history of clinical efficacy; it acts by blocking prostaglandin synthesis by inhibiting cyclooxygenase 1 and 2 in the arachidonic acid pathway 1.
- The bromine moiety in bromfenac enhances lipophilicity and facilitates penetration throughout ocular tissues 2-3
- Bronuck® (bromfenac sodium ophthalmic solution) 0.1% was initially approved in Japan in July 2000 and was subsequently approved for the treatment of blepharitie, conjunctivitie, scleritis (including episcleritis) and post-operative inflammation*
- Xibrom*** (bromfenac ophthalmic solution) 0.05%, administered twice daily, was approved by the Food and Drug Administration (FDA) on March 24, 2005 for the treatment of patients with post-cataract ocular inflammation, and in January 2006 for the treatment of ocular pain following cataract surgery*
- Bromday*** (bromfenac ophthalmic solution) 0.09% administered once daily, was approved by the FDA on October 16, 2010 for the treatment of postoperative inflammation and reduction of ocular pain in patients who have undergone cataract extraction!
- Based on extensive post-marketing experience and data from clinical trials, bromfenac ophthalmic solution has demonstrated a favorable safety profile
- The modified formulation of bromfenac facilitates intraocular penetration, thereby allowing a lower medication load while maintaining clinical efficacy with once daily dosing

Purpose

To evaluate the efficacy and safety of low-concentration, modified bromfenac sodium ophthalmic solution dosed once daily for the treatment of ocular inflammation and ocular pain associated with cataract surgery in subjects who have undergone cataract extraction with posterior chamber interacular lens implantation

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Storiy Design and Subjects

- Phase 3, placebo-controlled, randomized, double-masked, multi-center study
- $440\ subjects\ randomized\ (222\ in\ the\ bromfenac\ group,\ 218\ in\ the\ placebo\ group) at 39\ clinical\ sites$
- Eligible subjects were scheduled for a unilateral cataract surgery (phacoemulsification or extracapsular) with PCIOL implantation

Screening Phase: Days -8 to -1

- Screening Phase: Days -8 to -1
 Subjects were assigned to receive either bromfenac sodium ophthalmic solution or placebo dosed QD.
 Subjects must have met inclusion and exclusion criteria to be eligible for clinical trial.
 Primary efficacy endpoint was clearance of ocular inflammation (Summed Ocular Inflammation Score (SOIS) = 0) by day 15.
 Secondary efficacy endpoint was proportion of subjects painfree at day 1.



- Subjects began dosing on Day 1 (~ 24 hours before surgery)
 -Subjects returned to the office on Day 1 for evaluation of safety
 and efficacy
 -Subjects returned to the

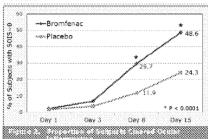
- -subjects returned to the effice on Day 1 for evaluation of safety -subjects returned to the office on Day 3±1 for evaluation of safety and efficacy -subjects returned to the office on Day 8±1 for evaluation of -obscontinued test agent on day 14 and subjects returned to the office on Day 15±1 for evaluation of safety and efficacy



- Follow-up Phase: Day 22+3 or 7+3 Days After Final Dose
- Subjects returned to the office on Day 22+3 or 7+3 days after discontinuation of test agent for termination evaluation

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Age (Years):		
Mean (9Ω):		68.5 (9.68)
Sex		
Female	141 (63.5.)	145 (57.0%)

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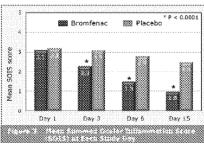
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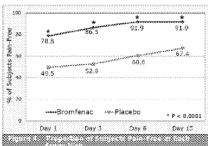
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