Taprenepag isopropyl

Cat. No.: HY-19998
CAS No.: 1005549-94-9
Molecular Formula: C₂₇H₂₈N₄O₅S
Molecular Weight: 520.6
Target: Prostaglandin Receptor
Pathway: GPCR/G Protein
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description
Taprenepag isopropyl is a highly selective EP₂ receptor agonist.

IC₅₀ & Target
EP₂ Receptor

In Vivo
Taprenepag isopropyl is a highly selective EP₂ receptor agonist. Intraocular pressure (IOP) in the left, vehicle-dosed eye typically remains within the normal range. In the right (Taprenepag isopropyl-dosed) eye, IOP is reduced in all dose groups. In the high-dose group, IOP is reduced to the extent that it cannot be measured (<4 mm Hg) on Days 22 and 29. There are no clinical signs or changes in body weight observed with any dose of Taprenepag isopropyl administration, and no ocular findings occur for animals in the low-dose group (0.75 mg/day).

PROTOCOL

Animal Administration
Three year-old, male cynomolgus monkeys with body weights ranging from 2.6 to 5.0 kg are used in this study. Animals are dosed twice daily for 28 days in the right eye with Taprenepag isopropyl (0.75, 12, or 36 mg/day), and an equal volume of vehicle (containing cremophor, boric acid, BAC, and EDTA) is dosed in the left eye. An additional 2 monkeys are included in the high-dose group to assess recovery over a 28 day period. Toxicity outcomes are based on the assessment of clinical signs, body weight, ophthalmic examination, pupillary diameter, corneal staining, pachymetry, and noncontact specular microscopy. IOP is measured once during the predose phase and before dosing on Days 1, 8, 15, 22, and 29 of the dosing phase, then once during each week of the recovery period. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES
