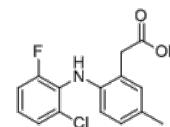


Product Name : Lumiracoxib
Cat. No. : PC-20195
CAS No. : 220991-20-8
Molecular Formula : C₁₅H₁₃ClFNO₂
Molecular Weight : 293.72
Target : Cyclooxygenase (COX)
Solubility : 10 mM in DMSO



Biological Activity

Lumiracoxib (COX-189) is a highly selective COX-2 inhibitor with IC₅₀ of 0.14 μM in COX-2-expressing dermal fibroblasts, inhibits purified COX-2 with K_i of 0.06 μM, 50-fold selectivity over COX-1 (K_i=3 μM).

Lumiracoxib shows no inhibition of COX-1 at concentrations up to 30 μM (HEK 293 cells transfected with human COX-1).

Lumiracoxib shows IC₅₀ of 0.13 μM in a human whole blood assay, 515 fold over COX-1.

Ex vivo, lumiracoxib inhibited COX-2-derived production of prostaglandin E₂ (PGE₂) in the lipopolysaccharide-stimulated rat air pouch with an ID₅₀ value of 0.24 mg kg⁻¹.

Lumiracoxib showed dose-dependent effect in rat models of hyperalgesia, oedema, pyresis and arthritis.

References

Ronald Esser, et al. Br J Pharmacol. 2005 Feb;144(4):538-50.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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