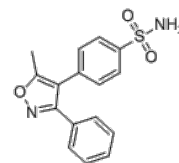


Product Name : Valdecoxib
Cat. No. : PC-20874
CAS No. : 181695-72-7
Molecular Formula : C₁₆H₁₄N₂O₃S
Molecular Weight : 314.36
Target : Cyclooxygenase (COX)
Solubility : 10 mM in DMSO



CAS: 181695-72-7

Biological Activity

Valdecoxib (SC 65872) is a potent and selective inhibitor of COX-2 with IC₅₀ of 5 nM, shows no activity against COX-1. Valdecoxib inhibits LPS-induced proliferation of endothelial cells and bFGF secretion in a dose-dependent manner. Valdecoxib stimulates VEGF formation via HMEC-1 under inflammatory conditions. shows chronic antiinflammatory activity in the rat adjuvant arthritis model, with an ED₅₀ of 0.032 mg/kg/day). Valdecoxib (10 mg/kg, i.p.) significantly attenuates the behavioral and biochemical (oxidative damage) alterations in chronic-stressed mice. Valdecoxib also selectively blocks rat TRPV2 channels in HEK293 and RBL-2H3 cells with IC₅₀ of 9 and 11 uM, respectively, but not closely related TRPV1, TRPV3 or TRPV4 channels.

References

- Talley JJ, et al. J Med Chem. 2000 Mar 9;43(5):775-7.
Kumar A, et al. Neurosci Bull. 2010 Feb;26(1):17-27.
Bluhm Y, et al. Eur J Pharmacol. 2022 Jan 15;915:174702.

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

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