

Product Data Sheet

Product Name: PF-4191834

Cat. No.: GC36883

Chemical Properties

Cas. No. 1029317-21-2

SMILES O=C(C1(C2=CC=CC(SC3=CC=C(C4=CC=NN4C)C=C3)=C2)CCOCC1)N

Formula $C_{22}H_{23}N_3O_2S$ M.Wt 393.5

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

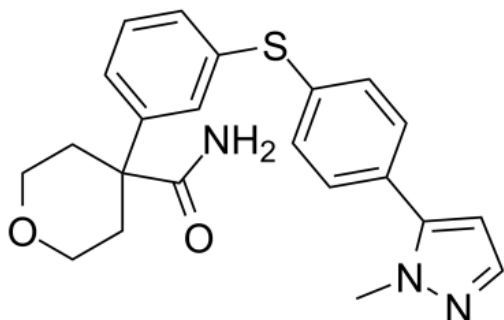
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

PF-4191834 (PF-04191834) is an orally active, noniron chelating, and non-redox inhibitor of the 5-Lipoxygenase (LOX) (IC₅₀=229 nM), displays ~300-fold selectivity for 5-LOX over 12-LOX and 15-LOX, shows no activity toward the cyclooxygenase enzymes, and is effective in inflammation and pain[1]. IC₅₀: 229 nM (5-LOX), 130 nM (human 5-LOX)[1]

PF-4191834 (PF-04191834) inhibits the synthesis of the 5-LOX products 5-HETE, 5-oxo-EETE, LTB₄, and LTE₄ with estimated IC₅₀ values between 100 and 190 nM and do not inhibit significantly the COX-1/2 enzymes or the 12- or 15-LOX enzymes at concentrations up to 30 μM[1]. PF-4191834 (PF-04191834) exerts a concentration-dependent inhibition of human 5-LOX, with an IC₅₀ value of 130 nM and an IC₈₀ value of 370 nM[1].

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[1]. Masferrer JL, et al. Pharmacology of PF-4191834, a novel, selective non-redox 5-lipoxygenase inhibitor effective in inflammation and pain. J Pharmacol Exp Ther. 2010 Jul;334(1):294-301.

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