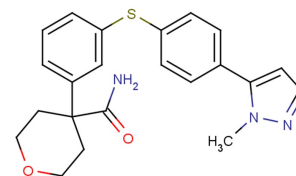


PF-4191834

## Chemical Properties

CAS No.:	1029317-21-2
Formula:	C <sub>22</sub> H <sub>23</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	393.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	PF-4191834 is an orally active, noniron chelating, and non-redox inhibitor of the 5-Lipoxygenase (5-LOX) (IC <sub>50</sub> =229 nM). PF-4191834 shows ~300-fold selectivity for 5-LOX over 12-LOX and 15-LOX and displays no activity toward the cyclooxygenase enzymes. PF-4191834 is also effective in inflammation and pain.
Targets(IC <sub>50</sub> )	5-LOX: None
In vitro	PF-4191834 exerts a concentration-dependent inhibition of human 5-LOX (IC <sub>50</sub> : 130 nM and an IC <sub>80</sub> : 370 nM). PF-4191834 inhibits the synthesis of the 5-LOX products 5-HETE, 5-oxo-EET, LTB <sub>4</sub> , and LTE <sub>4</sub> with estimated IC <sub>50</sub> values between 100 and 190 nM. However, it does not inhibit significantly the COX-1/2 enzymes or the 12- or 15-LOX enzymes at concentrations up to 30 μM[1].

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.541 mL	12.706 mL	25.413 mL
5 mM	0.508 mL	2.541 mL	5.083 mL
10 mM	0.254 mL	1.271 mL	2.541 mL
50 mM	0.051 mL	0.254 mL	0.508 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481