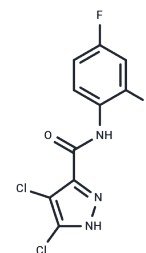


BLX3887

## Chemical Properties

CAS No. : 934758-70-0  
 Formula: C<sub>10</sub>H<sub>5</sub>Cl<sub>3</sub>FN<sub>3</sub>O  
 Molecular Weight: 308.52  
 Storage: Store at low temperature  
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	BLX3887 is a highly potent and selective inhibitor of 15-lipoxygenase type 1 (15-LO-1), exhibiting an IC <sub>50</sub> of 32 nM in cell-free enzyme assays, with marked selectivity over 15-LO-2, which it does not inhibit, as well as over 5-LO (IC <sub>50</sub> = 472 nM) and 12-LO (IC <sub>50</sub> = 3,310 nM). BLX3887 selectively suppresses 15-LO metabolite production in eosinophils over neutrophils at 10 μM while additionally inhibiting endocytosis and migration of human peripheral blood mononuclear cell-derived dendritic cells in vitro, highlighting its utility in inflammatory and immune cell signaling research.
Targets(IC <sub>50</sub> )	Lipoxygenase
In vitro	In functional assays utilizing human granulocytes, BLX3887 acted as a potent and selective inhibitor of 15-Lipoxygenase-1 (15-LOX-1), exhibiting an IC <sub>50</sub> of 0.37 μM [1].

## Solubility Information

Solubility	DMF: 15 mg/mL (48.62 mM),Sonication is recommended. DMSO: 8 mg/mL (25.93 mM),Sonication is recommended. PBS (pH 7.2)(1:5): < 1 mg/mL (insoluble) DMSO:PBS (pH 7.2) (1:5): 0.16 mg/mL (0.52 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.2413 mL	16.2064 mL	32.4128 mL
5 mM	0.6483 mL	3.2413 mL	6.4826 mL
10 mM	0.3241 mL	1.6206 mL	3.2413 mL
50 mM	0.0648 mL	0.3241 mL	0.6483 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Archambault, et al. Comparison of eight 15-lipoxygenase (LO) inhibitors on the biosynthesis of 15-LO metabolites by human neutrophils and eosinophils. PLoS One 13(8), e0202424 (2018).

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