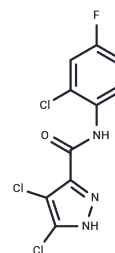


BLX3887

Chemical Properties

CAS No. : 934758-70-0
 Formula: C₁₀H₅Cl₃FN₃O
 Molecular Weight: 308.52
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	BLX3887 is an inhibitor of 15-lipoxygenase type 1 (15-LO-1; IC ₅₀ = 32 nM in a cell-free enzyme assay). ¹ It is selective for 15-LO-1 over 15-LO-2, which it does not inhibit, 5-LO (IC ₅₀ = 472 nM), and 12-LO (IC ₅₀ = 3,310 nM). BLX3887 inhibits the production of 15-LO metabolites selectively in eosinophils over neutrophils when used at a concentration of 10 μM. It also inhibits endocytosis in, and the migration of, isolated human peripheral blood mononuclear cell-derived dendritic cells in vitro.
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Solubility Information

Solubility	DMF: 30 mg/mL DMSO: 15 mg/mL DMSO:PBS (pH 7.2) (1:5): 0.16 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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

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.

Reference

Archambault, A.-S., Turcotte, C., Martin, C., 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).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481