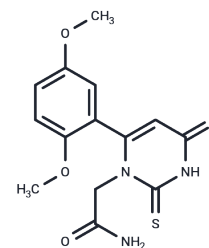


PF-1355

Chemical Properties

CAS No. : 1435467-38-1
 Formula: C₁₄H₁₅N₃O₄S
 Molecular Weight: 321.35
 Storage: 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	PF-1355 (PF 06281355) is a selective 2-thiouracil mechanism-based MPO inhibitor. PF-1355 is used for treatment of vasculitic diseases.
Targets(IC50)	Glutathione Peroxidase
In vitro	PF-1355 inhibits MPO activity in phorbol ester-stimulated human neutrophils as measured by taurine chlorination (EC ₅₀ =1.47 μM) as well as lipopolysaccharide-treated human blood measuring residual MPO activity (EC ₅₀ =2.03 μM) [1].
In vivo	Administering PF-1355 orally diminishes MPO activity in plasma, lessens vascular edema and neutrophil recruitment, and increases circulating cytokines levels. PF-1355 treatment entirely inhibits albuminuria and chronic renal dysfunction in a model of anti-glomerular basement membrane disease [1].

Solubility Information

Solubility	DMSO: 55 mg/mL (171.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.22 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1119 mL	15.5594 mL	31.1187 mL
5 mM	0.6224 mL	3.1119 mL	6.2237 mL
10 mM	0.3112 mL	1.5559 mL	3.1119 mL
50 mM	0.0622 mL	0.3112 mL	0.6224 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.

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

Zheng W, et al. PF-1355, a mechanism-based myeloperoxidase inhibitor, prevents immune complex vasculitis and anti-glomerular basement membrane glomerulonephritis. *J Pharmacol Exp Ther*. 2015 May;353(2):288-98

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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