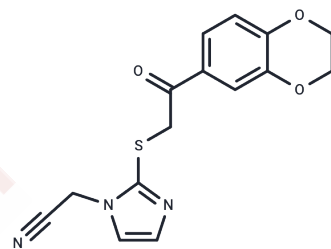


Cathepsin X-IN-1

Chemical Properties

CAS No. :	2418577-51-0
Formula:	C ₁₅ H ₁₃ N ₃ O ₃ S
Molecular Weight:	315.35
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	Cathepsin X-IN-1 (compound 25) is a potent Cathepsin X inhibitor (IC ₅₀ = 7.13 μM) that reduces PC-3 cell migration with low cytotoxicity [1].
Targets(IC ₅₀)	Cysteine Protease

Solubility Information

Solubility	DMSO: 90 mg/mL (285.4 mM),Sonication is recommended. H ₂ O: 4.4 mg/mL (13.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1711 mL	15.8554 mL	31.7108 mL
5 mM	0.6342 mL	3.1711 mL	6.3422 mL
10 mM	0.3171 mL	1.5855 mL	3.1711 mL
50 mM	0.0634 mL	0.3171 mL	0.6342 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

Fonović UP, et al. Structure-activity relationships of triazole-benzodioxine inhibitors of cathepsin X. Eur J Med Chem. 2020 May 1;193:112218.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481