

SBI-425

Chemical Properties

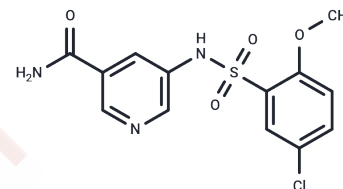
CAS No. : 1451272-71-1

Formula: C₁₃H₁₂ClN₃O₄S

Molecular Weight: 341.77

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	SBI-425 is an effective and orally bioavailable inhibitor of tissue-nonspecific alkaline phosphatase (TNAP). SBI-425 effectively inhibits TNAP in the vasculature and improves cardiovascular parameters and survival without a detectable change in the bone.
Targets(IC50)	Phosphatase

Solubility Information

Solubility	DMSO: 80 mg/mL (234.08 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: 3.3 mg/mL (9.66 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	2.9259 mL	14.6297 mL	29.2594 mL
5 mM	0.5852 mL	2.9259 mL	5.8519 mL
10 mM	0.2926 mL	1.463 mL	2.9259 mL
50 mM	0.0585 mL	0.2926 mL	0.5852 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

Pinkerton AB, et al. Discovery of 5-((5-chloro-2-methoxyphenyl)sulfonamido)nicotinamide (SBI-425), a potent and orally bioavailable tissue-nonspecific alkaline phosphatase (TNAP) inhibitor. *Bioorg Med Chem Lett*. 2018 Jan 1;28(1):31-34.

Sheen CR, et al. Pathophysiological role of vascular smooth muscle alkaline phosphatase in medial artery calcification. *J Bone Miner Res*. 2015 May;30(5):824-36.

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