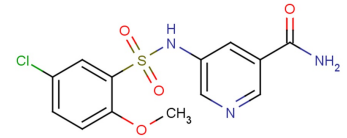


Data Sheet (Cat.No.T16859)

SBI-425

Chemical Properties

CAS No.:	1451272-71-1
Formula:	C ₁₃ H ₁₂ ClN ₃ O ₄ S
Molecular Weight:	341.77
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	SBI-425 is a potent and selective tissue-nonspecific alkaline phosphatase inhibitor. Long-term administration of SBI-425 effectively reaches and inhibits TNAP in the vasculature, improving cardiovascular parameters and survival at a dose that does not cause a detectable change in the bone.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	DMSO: 86.67 mg/mL (253.59 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.926 mL	14.63 mL	29.259 mL
5 mM	0.585 mL	2.926 mL	5.852 mL
10 mM	0.293 mL	1.463 mL	2.926 mL
50 mM	0.059 mL	0.293 mL	0.585 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

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.

Inhibitors · Natural Compounds · Compound Libraries

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