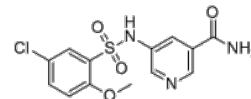


Product Name : SBI-425
Cat. No. : PC-62544
CAS No. : 1451272-71-1
Molecular Formula : C₁₃H₁₂ClN₃O₄S
Molecular Weight : 341.766
Target : Protein Phosphatase/PTP
Solubility : 10 mM in DMSO



Biological Activity

SBI-425 (SBI425) is a potent, selective, orally bioavailable **tissue-nonspecific alkaline phosphatase (TNAP)** inhibitor with IC₅₀ of 16 nM.

SBI-425 shows high selectivity over other alkaline phosphatases including IAP and PLAP.

SBI-425 demonstrates activity in blocking calcification in patient derived fibroblasts as well as in rodent models of GACI and PXE.

SBI-425 reduces coronary calcium and lipids, improves body weight and ejection fraction in WHC-eTNAP mice.

References

Pinkerton AB, et al. *Bioorg Med Chem Lett*. 2018 Jan 1;28(1):31-34.

Romanelli F, et al. *PLoS One*. 2017 Oct 12;12(10):e0186426.

Sheen CR, et al. *J Bone Miner Res*. 2015 May;30(5):824-36.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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