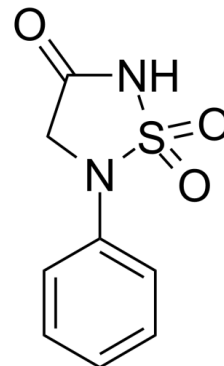


Data Sheet

Product Name:	PTP1B-IN-1
Cat. No.:	CS-3433
CAS No.:	612530-44-6
Molecular Formula:	C ₈ H ₈ N ₂ O ₃ S
Molecular Weight:	212.23
Target:	Phosphatase
Pathway:	Metabolic Enzyme/Protease
Solubility:	DMSO : ≥ 38 mg/mL (179.05 mM)



BIOLOGICAL ACTIVITY:

PTP1B-IN-1 is a potent protein tyrosine phosphatase-1B (PTP1B) inhibitor with IC₅₀ of 1.6 mM; 1,2,5-thiadiazolidin-3-one-1,1-dioxide scaffold for derivatives synthesis.

References:

- [1]. Black E, et al. Structure-based design of protein tyrosine phosphatase-1B inhibitors. *Bioorg Med Chem Lett*. 2005 May 16;15(10):2503-7.
- [2]. Vintonyak VV, et al. Using small molecules to target protein phosphatases. *Bioorg Med Chem*. 2011 Apr 1;19(7):2145-55.

CAIndexNames:

1,2,5-Thiadiazolidin-3-one, 5-phenyl-, 1,1-dioxide

SMILES:

O=S(N1C=CC=CC=C1)(NC(C1)=O)=O

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA