

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

PTP Inhibitor IV

Product overview

Name	PTP Inhibitor IV
Cat No	HB0539
Biological action	Inhibitor
Purity	>95%
Description	PTP inhibitor

Biological Data

Biological description	Protein tyrosine phosphatase (PTP) inhibitor. Attenuates oligodendrocyte maturation. Impairs the differentiation of endothelial cells. Shows anti-angiogenic actions.
-------------------------------	---

Solubility & Handling

Solubility overview	Soluble in DMSO (10mg/ml) or ACN.
Storage instructions	+4 °C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	N,N'-[1,4-phenylenebis[(1-methylethylidene)-4,1-phenylene]]bis[1,1,1-trifluoro-methanesulfonamide
Molecular Weight	608.6
Chemical structure	
Molecular Formula	C ₂₆ H ₂₆ F ₆ N ₂ O ₄ S ₂
CAS Number	329317-98-8
PubChem identifier	6420094
SMILES	CC(C)(C1=CC=C(C=C1)C(C)(C)C2=CC=C(C=C2)NS(=O)(=O)C(F)(F)F)C3=CC=C(C=C3)NS(=O)(=O)C(F)(F)F
InChi	InChI=1S/C26H26F6N2O4S2/c1-23(2,19-9-13-21(14-10-19)33-39(35,36)25(27,28)29)17-5-7-18(8-6-17)24(3,4)20-11-15-22(16-12-20)34-40(37,38)26(30,31)32/h5-16,33-34H,1-4H3
InChiKey	JWNAVYMNQAQDLHX-UHFFFAOYSA-N

References

PTP inhibitor IV protects JNK kinase activity by inhibiting dual-specificity phosphatase 14 (DUSP14).

Park JE *et al* (2009) Biochem Biophys Res Commun 387(4)

PubMedID [19646420](#)

Phosphatase inhibitors with anti-angiogenic effect in vitro.

Sylvest L *et al* (2010) APMIS 118(1)

PubMedID 20041871

SHP-2 promotes the maturation of oligodendrocyte precursor cells through Akt and ERK1/2 signaling in vitro.

Liu X *et al* (2011) PLoS One 6(6)

PubMedID 21701583
