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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.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (10mg/ml) or ACN.
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)

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Phosphatase inhibitors with anti-angiogenic effect in vitro.

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

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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
