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DATASHEET

BVT 948

Product overview

Name	BVT 948
Cat No	HB0150
Biological action	Inhibitor
Description	Non-competitive irreversible PTP inhibitor

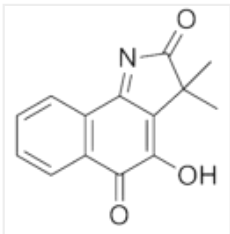
Biological Data

Biological description	Non-competitive irreversible protein tyrosine phosphatases (PTP) inhibitor ($K_i = 1.2 \mu\text{M}$ for PTP-1B). Inhibits a broad spectrum of PTP's (IC_{50} values are 0.9, 1.7, 0.09, 1.5 and $0.7 \mu\text{M}$ for PTP-1B, TCPTP, SHP-2, LAR and YopH respectively). Inhibits several cytochrome P450 isoforms and suppresses MMP-9 and blocks TPA-induced NF- κ B activation. Exhibits no activity for MAPK. Enhances insulin sensitivity. Cell permeable.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in ethanol or DMSO (50mM)
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

Molecular Weight	241.25
Chemical structure	
Molecular Formula	$\text{C}_{14}\text{H}_{11}\text{NO}_3$
CAS Number	39674-97-0
PubChem identifier	6604934
SMILES	<chem>CC1(C2=C(C3=CC=CC=C3C(=O)C2=O)NC1=O)C</chem>
InChiKey	LLPBUXODFQZPFH-UHFFFAOYSA-N

References

Oxidation of protein tyrosine phosphatases as a pharmaceutical mechanism of action: a study using 4-hydroxy-3,3-dimethyl-2H-benzo[g]indole-2,5(3H)-dione.

Liljebris C *et al* (2004) J Pharmacol Exp Ther 309(2)

PubMedID [14747616](https://pubmed.ncbi.nlm.nih.gov/14747616/)

Protein tyrosine phosphatase controls breast cancer invasion through the expression of matrix metalloproteinase-9.

Hwang BM *et al* (2013) BMB Rep 46(11)

PubMedID

[24152909](#)
