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## DATASHEET

BVT 948

### Product overview

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

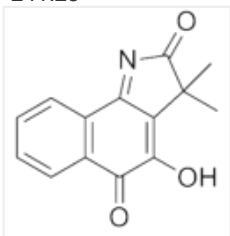
### Biological Data

<b>Biological description</b>	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 ( $\text{IC}_{50}$ 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- $\kappa$ B activation. Exhibits no activity for MAPK. Enhances insulin sensitivity. Cell permeable.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in ethanol or DMSO (50mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

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

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