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DATASHEET

bpV(bipy)

Product overview

Name	bpV(bipy)
Cat No	HB0144
Biological action	Inhibitor
Purity	>95%
Description	Potent protein PTP inhibitor

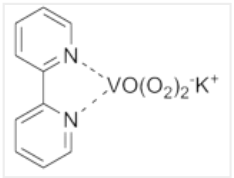
Biological Data

Biological description	Potent protein phosphotyrosine phosphatase (PTP) inhibitor (IC_{50} values are 18 and 164 nM for PTP-β and PTP-1B respectively). Also inhibits phosphatase and tensin homologue (PTEN) (IC_{50} = 18 nM). Displays insulin-mimetic properties.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in water
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	Potassiumbisperoxo(bipyridine)oxovanadate(V)
Molecular Weight	326.2
Chemical structure	
Molecular Formula	$K[VO(O_2)_2C_{10}H_8N_2]$
CAS Number	127393-89-9
PubChem identifier	0
SMILES	C[C@@H]1C[C@H](O)\C=C/[C@H](O)[C@@H](O)CC(=O)O1

References

Inhibition Effects of Some Bioactive Peroxovanadium Complexes on the Tyrosine Phosphatase.

Zhou XW *et al* (2000) Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao (Shanghai) 32(2)
PubMedID 12098789

Peroxovanadium compounds. A new class of potent phosphotyrosine phosphatase inhibitors which are insulin mimetics.

Posner BI *et al* (1994) J Biol Chem 269(6)

PubMedID 8308031

Bisperoxovanadium compounds are potent PTEN inhibitors.

Schmid AC *et al* (2004) FEBS Lett 566(1-3)
PubMedID 15147864

Early signaling events triggered by peroxovanadium [bpV(phen)] are insulin receptor kinase (IRK)-dependent: specificity of inhibition of IRK-associated protein tyrosine phosphatase(s) by bpV(phen).

Band CJ *et al* (1997) Mol Endocrinol 11(13)
PubMedID 9415395