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DATASHEET

bpV(pic)

Product overview

Name	bpV(pic)
Cat No	HB0147
Biological action	Inhibitor
Purity	>90%
Description	Potent PTP inhibitor

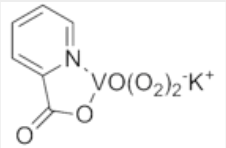
Biological Data

Biological description	Potent protein phosphotyrosine phosphatase (PTP) inhibitor (IC_{50} values are 12.7 and 61 µM for PTP-β and PTP-1B respectively). Also inhibits phosphatase and tensin homologue (PTEN) (IC_{50} = 31 nM) and activates insulin-receptor kinase (IRK). Displays cardioprotective and insulin-mimetic properties.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in water or DMSO
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	Dipotassium bisperoxo (picolinato)oxovanadate (V)
Molecular Weight	367.28
Chemical structure	
Molecular Formula	$K_2[VO(O_2)_2C_6H_4NO_2].2H_2O$
CAS Number	148556-27-8
PubChem identifier	16760324
SMILES	C1=CC=NC(=C1)C(=O)[O-].O.O.[OH-].OO.OO.[K+].[K+].[V]

References

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

Effects of bpV(pic) and bpV(phen) on H9c2 cardiomyoblasts during both hypoxia/reoxygenation and H2O2-induced injuries.

Tian Y *et al* (2012) Mol Med Rep 5(3)
PubMedID 22200881