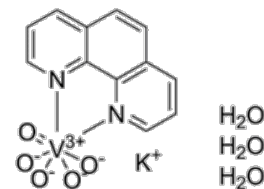


Product Name : bpV(phen) potassium hydrate
Cat. No. : PC-62443
CAS No. : 171202-16-7
Molecular Formula : $C_{12}H_8N_2O_5V \cdot K^+(H_2O)_3$
Molecular Weight : 404.3
Target : PTEN
Solubility : 10 mM in DMSO



Biological Activity

Bisperoxovanadium (bpV(phen) potassium hydrate) is a bisperoxovanadium (bpV) compound which inhibits several different protein tyrosine phosphatases (**PTPs**), with selectivity for **PTEN** (IC₅₀ = 38 nM), also inhibits the vascular endothelial **PTP**, PTP-β (IC₅₀=343 nM), and PTP-1β (IC₅₀=920 nM).

Bisperoxovanadium activates the insulin receptor tyrosine kinase and promotes downstream signaling, including activation of PI3-kinase.

References

- Castaldi L, et al. *FASEB J.* 2007 Nov;21(13):3573-83.
 Paliwal P, et al. *Chem Biol.* 2011 Sep 23;18(9):1153-66.
 Lai JP, et al. *Br J Pharmacol.* 2007 Dec;152(8):1172-84.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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