Technical Data Sheet

bpV(HOpic)

Catalog Number :7222604

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: Bisperoxovanadium(HOpic), bpV (HOpic)

Chemical Name: (5-hydroxy-2-pyridinecarł

Molecular Formula: $K_2[VO(O_2)_2C_6H_4NO_3]$

Molecular Weight: 347.2

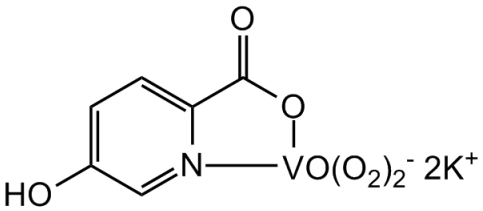
CAS Number: 722494-26-0

Purity: ≥95%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

bpV(HOpic) is a protein tyrosine phosphatases (PTPs) and a potent PTEN inhibitor. It is reported to function as an insulin mimetic and activate the insulin receptor kinase (IRK).

Preparation & Storage

Soluble in water and organic solvents such as DMSO. It is not stable in water and decomposition immediately starts tooccur. Rate is slower in dry DMSO.

References

1.Liao, J., Marumoto, T., Yamaguchi, S., Okano, S., Takeda, N., Sakamoto, C., ... Okada, M. (2013). Inhibition of PTEN tumor suppressor promotes the generation of induced pluripotent stem cells.;Molecular therapy,;21(6), 1242-1250.

2. Dimchev, G. A., Al-Shanti, N., Stewart, C. E. (2013). Phospho-tyrosine phosphatase inhibitor Bpv (Hopic) enhances C2C12 myoblast migration in vitro. Requirement of PI3K/AKT and MAPK/ERK pathways.;Journal of muscle research and cell motility,;34(2), 125-136.

3. Adhikari, D., Gorre, N., Risal, S., Zhao, Z., Zhang, H., Shen, Y., Liu, K. (2012). The safe use of a PTEN inhibitor for the activation of dormant mouse primordial follicles and generation of fertilizable eggs.;PLoS one,;7(6), e39034.

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