



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)



# PRODUCT INFORMATION



## bpV(HOpic) (potassium salt) (technical grade)

Item No. 15438

CAS Registry No.: 722494-26-0

Formal Name: (5-hydroxy-2-pyridinecarboxylato- $\kappa$ N<sup>1</sup>, $\kappa$ O<sup>2</sup>)  
oxodiperoxy-vanadate(2-), dipotassium

Synonym: Bisperoxovanadium(HOpic)

MF: C<sub>6</sub>H<sub>4</sub>NO<sub>8</sub>V • 2K

FW: 347.2

Purity: ≥80%

Supplied as: A crystalline solid

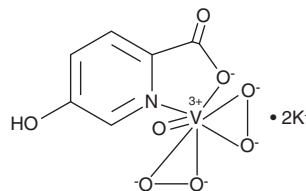
Storage: -20°C

Stability: ≥4 years

Special Conditions: Product not stable in water. Decomposition starts immediately after being dissolved.

Rate of decomposition is slower in dry DMSO.

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



### Laboratory Procedures

bpV(HOpic) (potassium salt) (technical grade) is supplied as a crystalline solid. A stock solution may be made by dissolving the bpV(HOpic) (potassium salt) (technical grade) in the solvent of choice, which should be purged with an inert gas. bpV(HOpic) (potassium salt) (technical grade) is soluble in organic solvents such as DMSO. It is also soluble in water. The solubility of bpV(HOpic) (potassium salt) (technical grade) in DMSO and water is approximately 4 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

bpV(HOpic) is a bisperoxovanadium (bpV) compound that inhibits several different protein tyrosine phosphatases (PTPs), with selectivity for PTEN (IC<sub>50</sub> = 14 nM).<sup>1</sup> It also inhibits the vascular endothelial PTP, PTP- $\beta$  (IC<sub>50</sub> = 4.9  $\mu$ M), and PTP-1 $\beta$  (IC<sub>50</sub> = 25.3  $\mu$ M).<sup>1</sup> At 15  $\mu$ M, bpV(HOpic) has been shown to protect against stimulated ischemia-reperfusion injury *in vitro* by decreasing apoptosis and improving cell viability through the upregulation of the PI3K/Akt/eNOS/ERK prosurvival pathway.

### References

- Schmid, A.C., Byrne, R.D., Vilar, R., *et al.* Bisperoxovanadium compounds are potent PTEN inhibitors. *FEBS Lett.* **566**(1-3), 35-38 (2004).
- Keyes, K.T., Xu, J., Long, B., *et al.* Pharmacological inhibition of PTEN limits myocardial infarct size and improves left ventricular function postinfarction. *Am. J. Physiol. Heart Circ. Physiol.* **298**(4), H1198-H1208 (2010).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 • USA

PHONE: [800] 364-9897  
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM