

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



# DATASHEET

## Carboxy-PTIO, potassium salt

### Product overview

<b>Name</b>	Carboxy-PTIO, potassium salt
<b>Cat No</b>	HB0169
<b>Purity</b>	>98%
<b>Description</b>	NO scavenger

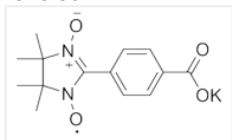
### Biological Data

<b>Biological description</b>	Nitric oxide (NO) scavenging free radical. Reacts with NO stoichiometrically. Reduces withdrawal-induced anxiety behaviours.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in water (100mg/ml) or DMSO
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	2-(4-Carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide potassium salt
<b>Molecular Weight</b>	315.39
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>14</sub> H <sub>16</sub> KN <sub>2</sub> O <sub>4</sub>
<b>CAS Number</b>	148819-94-7
<b>PubChem identifier</b>	2733502
<b>SMILES</b>	CC1(C([N+](=C(N1[O])C2=CC=C(C=C2)C(=O)[O-])[O-])(C)C)C.[K+]
<b>InChiKey</b>	VYEUQMVIGXFZQU-UHFFFAOYSA-M

### References

#### Antagonistic action of imidazolineoxyl N-oxides against endothelium-derived relaxing factor/.NO through a radical reaction.

Akaike T *et al* (1993) *Biochemistry* 32(3)

**PubMedID** [8422387](#)

#### Vasodilator effect of carboxy-2-phenyl-4,4,5,5-tetramethylimidazoline-1-oxyl in the coronary circulation: in vivo and in vitro studies.

Tsunoda R *et al* (1994) *Eur J Pharmacol* 262(1-2)

**PubMedID** [7813579](#)

**Nitric oxide scavenging causes remodeling of the endoplasmic reticulum, Golgi apparatus and mitochondria in pulmonary arterial endothelial cells.**

Lee JE *et al* (2013) Nitric Oxide 33

**PubMedID** [23770576](#)

**Effects of nitric oxide synthase inhibition in the dorsolateral periaqueductal gray matter on ethanol withdrawal-induced anxiety-like behavior in rats.**

Bonassoli VT *et al* (2013) Psychopharmacology (Berl) 228(3)

**PubMedID** [23494233](#)

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