

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

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

customercare-usa@m2stage.hellobio.com



DATASHEET

Carboxy-PTIO, potassium salt

Product overview

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

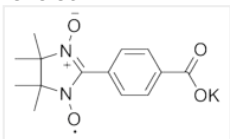
Biological Data

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

Storage instructions	+4 °C
Solubility overview	Soluble in water (100mg/ml) 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	2-(4-Carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide potassium salt
Molecular Weight	315.39
Chemical structure	
Molecular Formula	C ₁₄ H ₁₆ KN ₂ O ₄
CAS Number	148819-94-7
PubChem identifier	2733502
SMILES	CC1(C([N+](=C(N1[O]))C2=CC=C(C=C2)C(=O)[O-])[O-])(C)C)C.[K+]
InChiKey	VYEUQMVIGXFZQU-UHFFFAOYSA-M

References

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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)

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PubMedID [23770576](#)

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

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PubMedID [23494233](#)
