

Carboxy-PTIO K, Nitric oxide scavenger

Catalog	Unit
TBI3037-10MG	10 mg
TBI3037-50MG	50 mg

Product Details

Formal Name: 2-(4-Carboxyphenyl)-4,4,5,5-tetramethylimidazoline-1-oxyl-3-oxide, potassium salt

Alternate Names: Carboxy-PTIO; c-PTIO

Molecular Formula: C₁₄H₁₆KN₂O₄

Formula Weight: 315.40

CAS Number: 148819-94-7

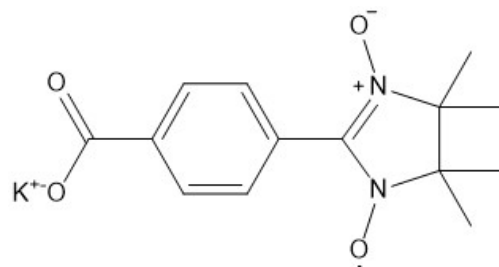
Purity: >98%

Formulation: powder

Solubility: Soluble in Water (up to 100 mg/ml) or DMSO (up to 50 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Nitric oxide scavenger

Functions

A nitric oxide (NO) scavenger. Carboxy-PTIO reacts with NO with 1:1 stoichiometry producing NO₂⁻/NO₃⁻. In LPS-induced endotoxin shock, carboxy-PTIO reversed hypotension and renal dysfunction and increased survival in a rat model. A very useful tool for probing the involvement of NO in physiological processes.

Application Procedures

First dissolved in Water (up to 100 mg/ml) or DMSO (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

For research use only.