PPH . hydrochloride

Spin trapping reagent

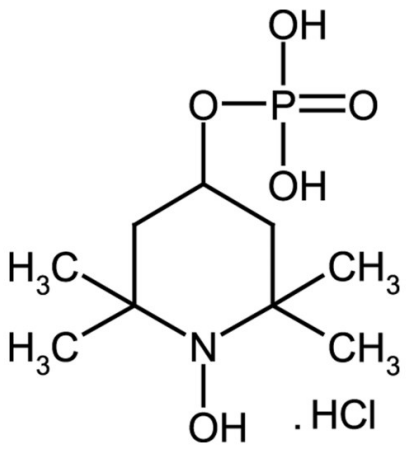
Effective, non-cell permeable and non-toxic analog of CPH for the detection of superoxide radicals. Resistant against reduction of vitamin C. For cell permeable analog see CPH (Prod. No. ALX-430-078).

Citations: 6 View Online »

Ordering Information Order Online »

ALX-430-080-M010	10mg
ALX-430-080-M050	50mg

Manuals, SDS & CofA View Online »


OH
O
P
O
OH
H3C
CH3
H3C
N
CH3
OH
. HCl

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	1-Hydroxy-4-phosphono-oxy-2,2,6,6-tetramethylpiperidine . HCl
Appearance	White to off-white solid.
Formula	$C_9H_{20}NO_5P$. HCl
MW	253.2 . 36.5
Purity	≥99% (EPR)
Purity Detail	≤0.1% paramagnetic impurities (EPR)
Solubility	Soluble in DMSO, 100% ethanol, methanol or water.
Technical Info / Product Notes	The stabilized acid form of PPH is not well soluble at neutral pH (~0.1-0.01%). It is recommended to adjust pH to 7.4 for higher solubility. Dissolve PPH in oxygen-free buffers at neutral pH and use 1M NaOH to adjust pH to 7.4. Solubility is 1% in water, 0.8% in methanol or 0.5% in ethanol at pH 7.4. Solubility is 3% in DMSO at pH 7.4 (first add NaOH to PPH crystals then DMSO). Higher concentrations require further pH adjustment using NaOH.

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