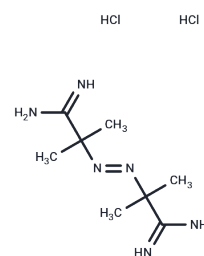


AAPH

Chemical Properties

CAS No. :	2997-92-4
Formula:	C ₈ H ₂₀ Cl ₂ N ₆
Molecular Weight:	271.19
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	AAPH is a water-soluble azo compound which is used extensively as a free radical generator, often in the study of lipid peroxidation and the characterization of antioxidants.[1],[2],[3],[4] Decomposition of AAPH produces molecular nitrogen and 2 carbon radicals. The carbon radicals may combine to produce stable products or react with molecular oxygen to give peroxy radicals. The half-life of AAPH is about 175 hours (37°C at neutral pH), making the rate of free radical generation essentially constant during the first several hours in solution.[5] While AAPH may be used effectively for lipid peroxidation in aqueous dispersions of fatty acids, other radical generators may be better suited for peroxidation studies in lipid micelles or membranes.[6],[7]
Targets(IC50)	Others,ROS

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (36.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6875 mL	18.4373 mL	36.8745 mL
5 mM	0.7375 mL	3.6875 mL	7.3749 mL
10 mM	0.3687 mL	1.8437 mL	3.6875 mL
50 mM	0.0737 mL	0.3687 mL	0.7375 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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