

AP219

Chemical Properties

CAS No. : 779282-36-9

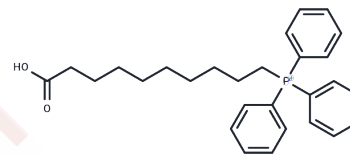
Formula: C₂₈H₃₄O₂P

Molecular Weight: 433.551

Keep away from direct sunlight

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	AP39 is a compound used to increase hydrogen sulfide (H ₂ S) levels within mitochondria; it consists of a mitochondria-targeting motif (triphenylphosphonium) coupled to an H ₂ S-donating moiety (dithiolethione) by an aliphatic linker. AP219, as a control compound for AP39, contains the triphenylphosphonium scaffold but lacks the H ₂ S-releasing portion.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	Ethanol: 15 mg/mL (34.6 mM),Sonication is recommended. DMF: 10 mg/mL (23.07 mM),Sonication is recommended. PBS (pH 7.2): 1 mg/mL (2.31 mM),Sonication is recommended. DMSO: 20 mg/mL (46.13 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	2.3065 mL	11.5327 mL	23.0654 mL
5 mM	0.4613 mL	2.3065 mL	4.6131 mL
10 mM	0.2307 mL	1.1533 mL	2.3065 mL
50 mM	0.0461 mL	0.2307 mL	0.4613 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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