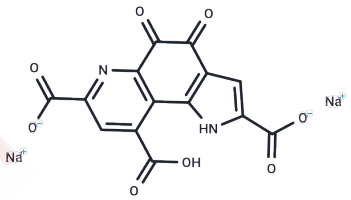
Data Sheet (Cat.No.T5693)

TargetMol

Pyrroloquinoline quinone disodium salt

Chemical Properties



CAS No. : 122628-50-6

Formula: C14H4N2Na2O8

Molecular Weight: 374.17

Storage: The compound is unstable in solution. Please use soon
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	Pyrroloquinoline quinone disodium salt (Methoxatin disodium salt), an aromatic tricyclic o-quinone, is a redox cofactor for bacterial dehydrogenases. It is an efficient electron transfer catalyst from a number of organic substrates to molecular oxygen (O2), constructing quinoprotein model reactions.
Targets(IC50)	Endogenous Metabolite
In vivo	Methoxatin disodium salt has been isolated from guinea-pig neutrophils.?The presence of Methoxatin disodium salt in guinea-pig neutrophils and suggest that it has a possible role, direct or indirect, in the O2.(-)-producing respiratory burst.

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble) H2O: 1.6 mg/mL (4.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6726 mL	13.3629 mL	26.7258 mL
5 mM	0.5345 mL	2.6726 mL	5.3452 mL
10 mM	0.2673 mL	1.3363 mL	2.6726 mL
50 mM	0.0535 mL	0.2673 mL	0.5345 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

Moog R S , Mcguirl M A , Cote C E , et al. Evidence for methoxatin (pyrroloquinolinequinone) as the cofactor in bovine plasma amine oxidase from resonance Raman spectroscopy.[J]. Proceedings of the National Academy of Sciences, 1986, 83(22):8435-8439.

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