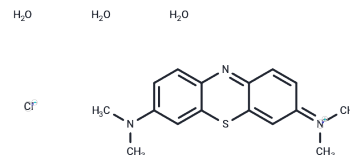


Methylene Blue trihydrate

Chemical Properties

CAS No. :	7220-79-3
Formula:	C ₁₆ H ₂₄ ClN ₃ O ₃ S
Molecular Weight:	373.9
Appearance:	no data available
Storage:	store at low temperature, keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Methylene Blue trihydrate (Basic blue 9) is a compound consisting of dark green crystals or crystalline powder, having a bronze-like luster. Solutions in water or alcohol have a deep blue color. Methylene Blue trihydrate is used as a bacteriologic stain and as an indicator. It inhibits soluble guanylyl cyclase and has been used to treat cyanide poisoning and to lower levels of methemoglobin. It also inhibits tau filament formation (IC ₅₀ : 1.9 μM).
Targets(IC ₅₀)	Guanylate cyclase, Microtubule Associated, NO Synthase, Parasite, Monoamine Oxidase

Solubility Information

Solubility	DMSO: 3.67 mg/ml, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6745 mL	13.3726 mL	26.7451 mL
5 mM	0.5349 mL	2.6745 mL	5.349 mL
10 mM	0.2675 mL	1.3373 mL	2.6745 mL
50 mM	0.0535 mL	0.2675 mL	0.5349 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.

Reference

Rager T, et al. Phys Chem Chem Phys. 2012 Jun 14;14(22):8074-82.

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