

EGTA-AM

Chemical Properties

CAS No. : 99590-86-0

Formula: C₂₆H₄₀N₂O₁₈

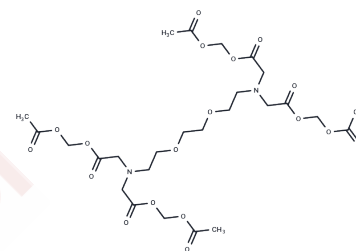
Molecular Weight: 668.6

Keep away from direct sunlight, Store at low temperature

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	EGTA-AM (EGTA Acetoxymethyl ester) is a calcium chelator, a metabolic biomarker of early-onset preeclampsia and late-onset preeclampsia.
Targets(IC50)	Others
In vitro	Many spontaneous but stimulus-dependent EPSCs are observed after the stimulus and are blocked by DNQX and reduced by EGTA-AM (50 μM)[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (14.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (1.5 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4957 mL	7.4783 mL	14.9566 mL
5 mM	0.2991 mL	1.4957 mL	2.9913 mL
10 mM	0.1496 mL	0.7478 mL	1.4957 mL
50 mM	0.0299 mL	0.1496 mL	0.2991 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

Li MJ, et al. Cholinergic and glutamatergic transmission at synapses between pedunculopontine tegmental nucleus axonal terminals and A7 catecholamine cell group noradrenergic neurons in the rat. *Neuropharmacology*. 2016 Nov;110(Pt A):237-50

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