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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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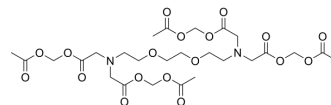
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EGTA-AM

Cat. No.:	HY-D0973
CAS No.:	99590-86-0
Molecular Formula:	C ₂₆ H ₄₀ N ₂ O ₁₈
Molecular Weight:	668.6
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (149.57 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.74 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.74 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.74 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	EGTA-AM is a membrane permeable form of EGTA, can be passively loaded into cells to generate intracellular EGTA; EGTA-AM is also a Ca ²⁺ chelator with slow chelating dynamics.
In Vitro	EGTA-AM (50 μM) markedly reduces the asynchronous excitatory postsynaptic currents (aEPSC) to 58.9 ± 8.1% of the control level, but only reduces the synchronous excitatory postsynaptic currents (EPSCs), measured as charge transfer produced by the stimulation train ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Commun. 2021 Jan 28;12(1):662.
- Front Physiol. 05 January 2022.

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REFERENCES

[1]. 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

Caution: Product has not been fully validated for medical applications. For research use only.

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