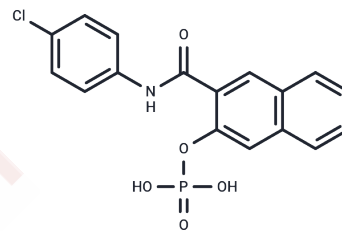


KG-501

Chemical Properties

CAS No. : 18228-17-6
 Formula: C₁₇H₁₃ClNO₅P
 Molecular Weight: 377.72
 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	KG-501 (Naphthol AS-E phosphate) is a cAMP response element-binding protein (CREB) inhibitor (IC ₅₀ : 6.89 μM).
Targets (IC ₅₀)	Epigenetic Reader Domain

Solubility Information

Solubility	DMSO: 6 mg/mL (15.88 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 (2.65 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	2.6475 mL	13.2373 mL	26.4746 mL
5 mM	0.5295 mL	2.6475 mL	5.2949 mL
10 mM	0.2647 mL	1.3237 mL	2.6475 mL
50 mM	0.0529 mL	0.2647 mL	0.5295 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

Kaori K , Haruka F , Hitomi S , et al. The Traditional Japanese Herbal Medicine Hachimijiogan Elicits Neurite Outgrowth Effects in PC12 Cells and Improves Cognitive in AD Model Rats via Phosphorylation of CREB[J]. *Frontiers in Pharmacology*, 2017, 8:850-.

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