

CaMKII α -PHOTAC

Chemical Properties

CAS No. :

Formula: C54H58Cl2N10O11

Molecular Weight: 1094

Keep away from direct sunlight

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	CaMKII α -PHOTAC is a photochemically targeted chimera (PHOTAC) that specifically targets Ca ²⁺ /calmodulin-dependent protein kinase II α (CaMKII α), facilitating its ubiquitination and subsequent proteasome-mediated degradation when exposed to specific light wavelengths. Under illumination, CaMKII α -PHOTAC diminishes synaptic functions and weakens evoked field excitatory postsynaptic potentials in the mouse hippocampus, impacting physiological responses and sustaining long-term potentiation and memory functions within dendritic domains [1].
Targets(IC50)	CaMK,PROTACs

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9141 mL	4.5704 mL	9.1408 mL
5 mM	0.1828 mL	0.9141 mL	1.8282 mL
10 mM	0.0914 mL	0.457 mL	0.9141 mL
50 mM	0.0183 mL	0.0914 mL	0.1828 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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