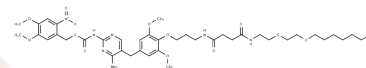


NVOC cage-TMP-Halo

Chemical Properties

CAS No. :	2137894-98-3
Formula:	C40H56ClN7O13
Molecular Weight:	878.37
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	NVOC cage-TMP-Halo is a cell-permeable, photoactivatable protein dimerization inducer that enables rapid, reversible, and spatially controlled manipulation of protein localization in living cells, offering a powerful optochemical approach for studying dynamic cellular processes, signal transduction, and real-time protein function with high temporal precision.
Targets(IC50)	Others
In vitro	NVOC cage-TMP-Halo (20µM, for 15, 30, and 60 minutes) demonstrated precise spatial manipulation of protein localization in HeLa cells [1]. When applied to HeLa cells expressing CENPB-GFP-Haloenzyme and mCherry-eDHFR, NVOC cage-TMP-Halo (20µM, 60 min) significantly recruited mCherry-eDHFR to the centromere with a half-time (t1/2) of 15 seconds [1].

Solubility Information

Solubility	DMSO: 120 mg/mL (136.62 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1385 mL	5.6924 mL	11.3847 mL
5 mM	0.2277 mL	1.1385 mL	2.2769 mL
10 mM	0.1138 mL	0.5692 mL	1.1385 mL
50 mM	0.0228 mL	0.1138 mL	0.2277 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

Ballister ER, et al. Localized light-induced protein dimerization in living cells using a photocaged dimerizer. Nat Commun. 2014 Nov 17;5:5475.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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