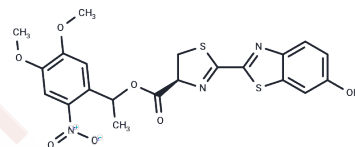


DMNPE

Chemical Properties

CAS No. :	223920-67-0
Formula:	C ₂₁ H ₁₉ N ₃ O ₇ S ₂
Molecular Weight:	489.52
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	DMNPE (D-Luciferin 1-(4,5-dimethoxy-2-nitrophenyl) ethyl ester) is a chemical agent that forms stable complexes with DNA molecules, effectively "caging" or blocking the biological activity of DNA. Once inside the cell, activated D-luciferin is released either by UV light or catalytically by endogenous intracellular esterases. This product makes it easier to detect changes in gene expression in living cells.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0428 mL	10.2141 mL	20.4282 mL
5 mM	0.4086 mL	2.0428 mL	4.0856 mL
10 mM	0.2043 mL	1.0214 mL	2.0428 mL
50 mM	0.0409 mL	0.2043 mL	0.4086 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

Schroeder A, Goldberg MS, Kastrup C, et.al, Anderson DG. Remotely activated protein-producing nanoparticles. Nano Lett. 2012 Jun 13;12(6):2685-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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