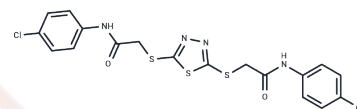


Cy-FBP/SBPase-IN-1

Chemical Properties

CAS No. :	444792-16-9
Formula:	C ₁₈ H ₁₄ Cl ₂ N ₄ O ₂ S ₃
Molecular Weight:	485.43
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	Cy-FBP/SBPase-IN-1 (compound S5) is an inhibitor of the key regulatory enzyme Cy-FBP/SBPase in cyanobacterial photosynthesis, impeding the Calvin cycle and photosystem, thereby reducing photosynthetic efficiency. It effectively suppresses the proliferation of cyanobacteria, including <i>Synechocystis</i> sp. PCC6803, while demonstrating a safe profile in human-derived cell lines and zebrafish models [1].
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.060 mL	10.3001 mL	20.6003 mL
5 mM	0.412 mL	2.060 mL	4.1201 mL
10 mM	0.206 mL	1.030 mL	2.060 mL
50 mM	0.0412 mL	0.206 mL	0.412 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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