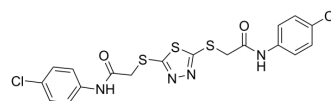


Cy-FBP/SBPase-IN-1

Cat. No.:	HY-155726
CAS No.:	444792-16-9
Molecular Formula:	C ₁₈ H ₁₄ Cl ₂ N ₄ O ₂ S ₃
Molecular Weight:	485.43
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cy-FBP/SBPase-IN-1 (compound S5) is a Cy-FBP/SBPase inhibitor, which is an important regulatory enzyme in cyanobacterial photosynthesis. Thus Cy-FBP/SBPase-IN-1 inhibits Calvin cycle and photosystem, and decreases photosynthetic efficiency in cyanobacterial photosynthesis. Cy-FBP/SBPase-IN-1 potently inhibits the growth of cyanobacteria, as well as <i>Synechocystis</i> sp.PCC6803. Cy-FBP/SBPase-IN-1 shows safety profile in human-derived cells and zebrafish models ^[1] .
IC ₅₀ & Target	Cy-FBP/SBPase ^[1]

REFERENCES

[1]. Zuo L, et al. Design, Synthesis, and Bioassay for the Thiadiazole-Bridged Thioacetamide Compound as Cy-FBP/SBPase Inhibitors Based on Catalytic Mechanism Virtual Screening. *J Agric Food Chem.* 2023 Aug 9;71(31):11834-11846.

Caution: Product has not been fully validated for medical applications. For research use only.

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