

SERTlight

Chemical Properties

CAS No. :

Formula: C13H12F4N2O4

Molecular Weight: 336.24

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	SERTlight is a fluorescent probe that specifically labels the soma, dendrites and axonal projection structures of serotonergic neurons corresponding to serotonin transporter (SERT) fluorescent substrates. It is compatible with multiple genetically encoded probes in optical properties, pharmacological effects and experimental operations, enabling multi-channel combined imaging. With SERTlight, GRAB ₅ HT probes can be used to label distal 5-hydroxytryptamine axonal projections and image endogenous 5-hydroxytryptamine release simultaneously, providing a novel multifunctional molecular tool for the research of the serotonergic nervous system.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80.00 mg/mL (237.93 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	2.9741 mL	14.8703 mL	29.7407 mL
5 mM	0.5948 mL	2.9741 mL	5.9481 mL
10 mM	0.2974 mL	1.487 mL	2.9741 mL
50 mM	0.0595 mL	0.2974 mL	0.5948 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

Lee WL, et al. Molecular Design of SERTlight: A Fluorescent Serotonin Probe for Neuronal Labeling in the Brain. J Am Chem Soc. 2024;146(14):9564-9574.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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