

FFN246

Chemical Properties

CAS No. : 2210244-83-8

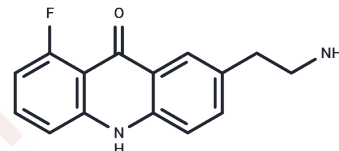
Formula: C₁₅H₁₃FN₂O

Molecular Weight: 256.27

Keep away from direct sunlight

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	FFN246 is a fluorescent dual-substrate probe for serotonin transporter and vesicular monoamine transporter 2 with defined excitation and emission spectra of 392/427 nm, FFN246 enables selective labeling of serotonergic neurons in mouse brain tissue through SERT-dependent uptake and facilitating visualization of monoaminergic neurotransmission dynamics.
Targets(IC50)	Others
In vivo	In high-throughput screening applications utilizing 96-well cell culture formats, FFN246 functioned as a versatile fluorescent probe for the assessment of Serotonin Transporter (SERT) activity. Over a 30-minute incubation period with concentrations ranging from 2.5 to 20 uM, the compound enabled the direct monitoring of transporter functionality and the evaluation of potential inhibitors [1]. Extending its utility to ex vivo models, specifically acute mouse brain slices, FFN246 (20 uM) selectively labeled serotonergic neurons within the dorsal raphe nucleus. This application allowed for the visualization of physiological serotonin uptake dynamics and vesicle packaging processes within the neuronal somas [1].

Solubility Information

Solubility	DMSO: 13 mg/mL (50.73 mM), when pH is adjusted to 1 with 1 M HCl. Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9021 mL	19.5107 mL	39.0213 mL
5 mM	0.7804 mL	3.9021 mL	7.8043 mL
10 mM	0.3902 mL	1.9511 mL	3.9021 mL
50 mM	0.078 mL	0.3902 mL	0.7804 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

Henke A, et al. Toward Serotonin Fluorescent False Neurotransmitters: Development of Fluorescent Dual Serotonin and Vesicular Monoamine Transporter Substrates for Visualizing Serotonin Neurons. ACS Chem Neurosci. 2018;9 (5):925-934.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481