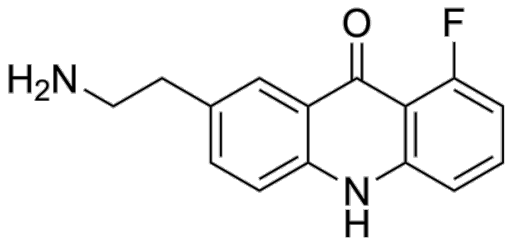
Product Data Sheet

Product Name: FFN246
Cat. No.: GC73217

Chemical Properties

Cas. No.	2210244-83-8		
Formula	$C_{15}H_{13}FN_2O$	M.Wt	256.27
Solubility	DMSO : 16.67 mg/mL (65.05 mM; ultrasonic and warming and adjust pH to 1 with 1 M HCL and heat to 60°C)	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

FFN246 is a fluorescent, dual substrate of serotonin transporter (SERT) probe and vesicular monoamine transporter 2 (VMAT2) with excitation and emission spectra 392/427 nm. FFN246 can be used for labeling serotonergic neurons in mouse brain tissue through SERT-dependent accumulation.

FFN246 (2.5-20 μM, 30 mins) can be used for direct examination of serotonin transporter (SERT)

Caution: Product has not been fully validated for medical applications. For research use only.
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activity and SERT inhibitors in 96-well cell culture assays, as well as specific labeling of serotonergic neurons of the dorsal raphe nucleus in the living tissue of acute mouse brain slices[1].FFN246 (20 μM, 30 mins) effectively traces serotonin uptake and packaging in the soma of serotonergic neurons[1].

References:

[1]. 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.