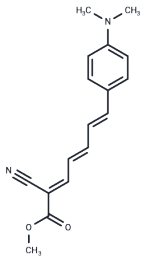
Data Sheet (Cat.No.T78426)

TargetMol

MCAAD-3

Chemical Properties



CAS No. : 1625629-51-7

Formula: C17H18N2O2

Molecular Weight: 282.34

Storage: Keep away from direct sunlight
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	MCAAD-3 is a near-infrared fluorescent probe designed for the highly selective detection of monoamine oxidase A (MAO-A). With excellent cellular permeability and a large Stokes shift, it enables real-time, non-invasive monitoring of dynamic changes in MAO-A activity in live cells and tissue models.
Targets(IC50)	MAO

Solubility Information

Solubility	DMSO: 8 mg/mL (28.33 mM),Sonication is recommmended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5418 mL	17.7091 mL	35.4183 mL
5 mM	0.7084 mL	3.5418 mL	7.0837 mL
10 mM	0.3542 mL	1.7709 mL	3.5418 mL
50 mM	0.0708 mL	0.3542 mL	0.7084 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

Das B C, Kabalka G W, Srivastava R R, et al. Synthesis of a water soluble boron neutron capture therapy agent: 1-amino-3-[2-(7-{3-[2-(2-hydroxymethyl-ethoxy)-1-(2-hydroxy-1-hydroxymethyl-ethoxymethyl) ethoxy] propyl}-1, 7-di-carba-closo-dodecaboran-1-yl) ethyl] cyclobutanecarboxylic acid[J]. Journal of Organometallic Chemistry, 2000, 614: 255-261.