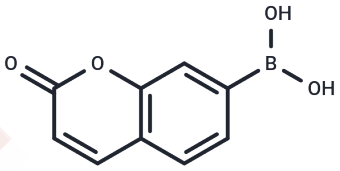
Data Sheet (Cat.No.T38324)

TargetMol

Coumarin Boronic Acid

Chemical Properties



CAS No. : 1357078-03-5

Formula: C9H7BO4

Molecular Weight: 189.96

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	Coumarin boronic acid (CBA) is a fluorescent probe that can be used to detect peroxynitrite , hypochlorous acid, and hydrogen peroxide.It reacts with peroxynitrite at an exponentially faster rate (k = 1.1 μM/s) than hydrogen peroxide (k =1.5 M/s) and moderately faster rate than hypochlorous acid. Peroxynitrite oxidizes CBA into the fluorescent product 7-hydroxycoumarin (COH), which displays excitation/emission maxima of 332/470 nm, respectively.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 3 mg/mL (15.79 mM),Sonication is recommended. DMSO:PBS (pH 7.2) (1:1): 0.5 mg/mL (2.63 mM),Sonication is recommended. DMF: 11 mg/mL (57.91 mM),Sonication is recommended. Ethanol: 1 mg/mL (5.26 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2643 mL	26.3213 mL	52.6427 mL
5 mM	1.0529 mL	5.2643 mL	10.5285 mL
10 mM	0.5264 mL	2.6321 mL	5.2643 mL
50 mM	0.1053 mL	0.5264 mL	1.0529 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.

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