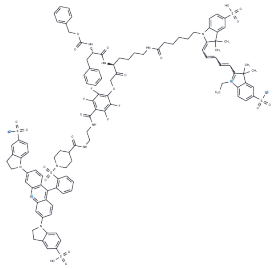
Data Sheet (Cat.No.T85864)

TargetMol

BMV109

Chemical Properties



CAS No. : 1458731-58-2

Formula: C107H108F4N10O23S5

Molecular Weight: 2138.37

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	BMV109 is a quenched probe designed to emit fluorescence upon being cleaved and covalently bound by active cathepsin proteases. This property of BMV109 is utilized in tumor imaging [1] [2].
Targets(IC50)	Others
In vitro	BMV109 (compound 8; 0.05 μM, 0.1 μM, 0.5 μM, 1 μM, 5 μM) labels all target cysteine cathepsins (B, S, L, X) with equal intensity in live RAW cells [1].
In vivo	In a mouse model of breast cancer, BMV109 (Compound 8; 20 nmol; intravenous injection) achieved tumor-specific fluorescence signals [1]. Animal Model: Balb/c mice bearing 4T1 cells [1]. Dosage: 20 nmol. Administration: Tail vein. Result: High-intensity, tumor-specific fluorescence activation was observed.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4676 mL	2.3382 mL	4.6765 mL
5 mM	0.0935 mL	0.4676 mL	0.9353 mL
10 mM	0.0468 mL	0.2338 mL	0.4676 mL
50 mM	0.0094 mL	0.0468 mL	0.0935 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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