

DDAO-C6

Chemical Properties

CAS No. : 2102418-90-4

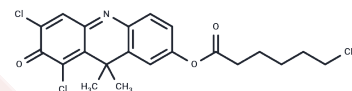
Formula: C₂₂H₂₃Cl₂N₃O₃

Molecular Weight: 420.33

Keep away from direct sunlight

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	DDAO-C6, a cridone ester derivative, serves as a highly specific fluorescent probe for detecting human serum albumin (HSA). Additionally, it functions as an enzymatically activatable near-infrared fluorescent probe, facilitating the visual detection of endogenous lipase produced by gut microbes (Ex/Em=600/658 nm) [1] [2].
Targets(IC50)	Others
In vitro	DDAO-C6 (10 μM; 30 min; 37 °C) exhibits a linear correlation between fluorescence intensity and lipase levels (0-50 μg/mL), yielding a red fluorescent signal upon interaction with active lipase [1].
In vivo	DDAO-C6 serves as a tool for swiftly pinpointing and cultivating lipase-producing fungal strains within human fecal intestinal microbiota, representing a promising approach for the biological study of gut microbes [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3791 mL	11.8954 mL	23.7908 mL
5 mM	0.4758 mL	2.3791 mL	4.7582 mL
10 mM	0.2379 mL	1.1895 mL	2.3791 mL
50 mM	0.0476 mL	0.2379 mL	0.4758 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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