

5(6)-FAM SE

Chemical Properties

CAS No. : 117548-22-8

Formula: C₅₀H₃₀N₂O₁₈

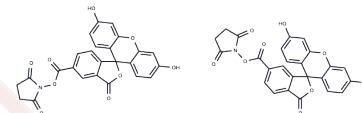
Molecular Weight: 946.786

Keep away from direct sunlight, Store at low temperature

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	5(6)-FAM SE (5(6)-Carboxyfluorescein N-hydroxysuccinimide ester) is an amine-reactive green fluorescent dye. 5(6)-FAM SE is widely used for labeling proteins or other molecules that contain a primary or secondary aliphatic amine.
Targets(IC50)	Others
In vitro	<p>Instructions</p> <ol style="list-style-type: none"> Solution preparation: Dissolve 5(6)-FAM SE in an appropriate solvent, such as anhydrous DMSO, DMF or methanol, to prepare a stock solution of the required concentration. The recommended stock solution concentration is 10 mM for subsequent dilution. Labeling process: <ol style="list-style-type: none"> Dissolve the molecule to be labeled in an appropriate buffer. Add an appropriate amount of 5(6)-FAM SE stock solution to ensure that the dye reacts fully with the target molecule. Incubate at room temperature in the dark for 30 minutes to 1 hour to promote the labeling reaction. After the reaction is completed, wash the labeled product with an appropriate buffer to remove unbound dye. Fluorescence detection: Use a fluorescence microscope or flow cytometer for detection. The excitation wavelength of 5(6)-FAM SE is approximately 495 nm, and the emission wavelength is approximately 517 nm. <p>Precautions:</p> <ol style="list-style-type: none"> Wear gloves during operation to avoid contact between skin or mucous membranes and reagents. Avoid light during incubation and storage to prevent fluorescence quenching. After staining is completed, fluorescence detection and analysis should be performed immediately. <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Solubility Information

Solubility	DMSO: 240 mg/mL (253.49 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0562 mL	5.281 mL	10.562 mL
5 mM	0.2112 mL	1.0562 mL	2.1124 mL
10 mM	0.1056 mL	0.5281 mL	1.0562 mL
50 mM	0.0211 mL	0.1056 mL	0.2112 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

Stafford JM, et al. Accessory factors facilitate the binding of glucocorticoid receptor to the phosphoenolpyruvate carboxykinase gene promoter. *J Biol Chem.* 2001 Oct 26;276(43):39885-91.

Powell RD, Halsey CM, Hainfeld JF. Combined fluorescent and gold immunoprobes: reagents and methods for correlative light and electron microscopy. *Microsc Res Tech.* 1998 Jul 1;42(1):2-12.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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