Sulfo-Cy7.5 NHS ester

Cat. No.: HY-D1568

CAS No.: 2736437-44-6

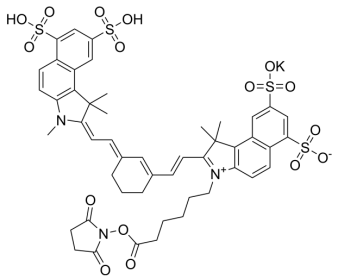
Molecular Formula: $C_{49}H_{50}KN_3O_{16}S_4$

Molecular Weight: 1104.29

Target: Fluorescent Dye

Pathway: Others

Storage: -20°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (45.28 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.9056 mL	4.5278 mL	9.0556 mL
	5 mM	0.1811 mL	0.9056 mL	1.8111 mL
	10 mM	0.0906 mL	0.4528 mL	0.9056 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.25 mg/mL (1.13 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (1.13 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sulfo-Cy7.5 NHS ester is a near infrared water soluble hydrophilic dye, also is an NHS ester for the modification of amine groups. Sulfo-Cy7.5 NHS ester contains a trimeth ylene bridge and has a linker arm for its attachment to proteins, peptides, and other molecules. Sulfo-Cy7.5 NHS ester can be used for the research of NIR imaging applications[1].

REFERENCES

[1]. Pavel N Melentiev, et al. Ultrafast, Ultrasensitive Detection and Imaging of Single Cardiac Troponin-T Molecules. ACS Sens. 2020 Nov 25;5(11):3576-3583.

Caution: Product has not been fully validated for medical applications. For research use only.

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