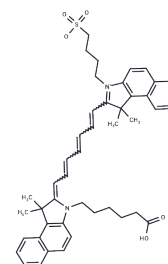


ICG-carboxylic acid

Chemical Properties

CAS No. :	181934-09-8
Formula:	C ₄₅ H ₅₀ N ₂ O ₅ S
Molecular Weight:	730.95
Storage:	Keep away from direct sunlight Store at -20°C <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	ICG-carboxylic acid is a near-infrared (NIR) fluorocein dye and ICG derivative. ICG (Indocyanine Green) is a fluorescent dye for medical diagnostics with Ex/Em = 790/815 nm, applicable for blood flow measurement and angiography. ICG may also be conjugated to targeted antibodies for tumour cell ablation, such as PANC-1 and BxPC-3.
Targets(IC50)	Others
In vitro	Indocyanine green (ICG), a water-soluble compound renowned for its proven fluorescence properties, is extensively and securely utilized in medical diagnostics. Its application in fluorescence-guided surgery facilitates the identification of critical anatomical features, notably intra-abdominal tumors[1].

Solubility Information

Solubility	DMSO: 40 mg/mL (54.72 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3681 mL	6.8404 mL	13.6808 mL
5 mM	0.2736 mL	1.3681 mL	2.7362 mL
10 mM	0.1368 mL	0.684 mL	1.3681 mL
50 mM	0.0274 mL	0.1368 mL	0.2736 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

Taylor JS, et al. Combined application of Indocyanine green (ICG) and laser lead to targeted tumor cell destruction. J Pediatr Surg. 2018;53(12):2475-2479.

Mačianskienė R, et al. Spectral characteristics of voltage-sensitive indocyanine green fluorescence in the heart. Sci Rep. 2017;7(1):7983. Published 2017 Aug 11.

Wu YZ, et al. From Ancient Medicine to Targeted Nanocarrier: A Sparganii Rhizoma-Derived Nanoparticle for Diagnostic Imaging and Endocrine Therapy in Cancer. ACS Appl Bio Mater. 2020 Apr 20;3(4):2028-2039.

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