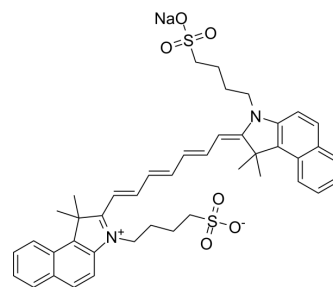


Indocyanine green

Cat. No.:	HY-D0711
CAS No.:	3599-32-4
Molecular Formula:	C ₄₃ H ₄₇ N ₂ NaO ₆ S ₂
Molecular Weight:	774.96
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°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 : 83.33 mg/mL (107.53 mM; Need ultrasonic)				
	H ₂ O : 5 mg/mL (6.45 mM; ultrasonic and warming and heat to 60°C)				
	Preparing Stock Solutions	<div>Solvent Mass Concentration</div>	1 mg	5 mg	10 mg
		1 mM	1.2904 mL	6.4519 mL	12.9039 mL
		5 mM	0.2581 mL	1.2904 mL	2.5808 mL
		10 mM	0.1290 mL	0.6452 mL	1.2904 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: ≥ 2.5 mg/mL (3.23 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.23 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Indocyanine green (Foxgreen) is a low toxic fluorescent agent that has been widely used in medical diagnostics, such as determining cardiac output, hepatic function, and liver blood flow, and for ophthalmic angiography ^[1] .
In Vitro	Indocyanine green (Foxgreen)-photodynamic therapy (ICG-PDT) at concentrations 1000 µg/mL, induces the significant expression of BAX in HGF cells; however, the laser irradiation as well as ICG shows no significant effects on the expression of BCL-2 gene ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- ACS Nano. 2020 May 26;14(5):6191-6212.
- Adv Sci (Weinh). 2022 Oct 18;e2203088.
- Biomaterials. 2021, 120648.
- Small Methods. 2020 Oct 8.
- J Control Release. 2022 Sep 22;351:151-163.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Gharezi S, et al. Effect of photodynamic therapy based on indocyanine green on expression of apoptosis-related genes in human gingival fibroblast cells. Photodiagnosis Photodyn Ther. 2017 Apr 21.

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

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