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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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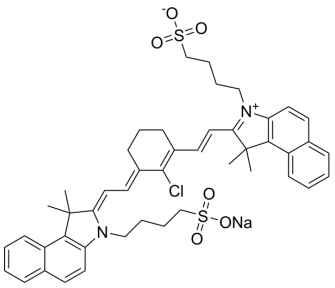
IR-820

Cat. No.:	HY-136886
CAS No.:	172616-80-7
Molecular Formula:	$C_{46}H_{50}ClN_2NaO_6S_2$
Molecular Weight:	849.47
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (5.89 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.1772 mL	5.8860 mL	11.7720 mL
	5 mM	0.2354 mL	1.1772 mL	2.3544 mL
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

IR-820 (New Indocyanine Green) is an infrared blood pool contrast agent. IR-820 also is normally used as a laser and near-infrared dye to detect and quantify diseased tissue in live animals[1].

In Vitro

Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).

In vivo[1]:

1. The powdered IR-820 was freshly mixed with phosphate buffer saline (PBS) to a final concentration of 0.2 mM and 100 μl of this solution was used for injecting into experimental animals.
2. Used 2 groups of four Hairless SKHi/sKHl mice. The first group was injected with IR-820 by intravenous tail vein injection while the second was injected intraperitoneally.
3. IR-820 has maximal excitation and emission wavelengths of 710 nm and 820 nm, respectively. Both groups were serially imaged for 8 days.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Nanomedicine. 2023 Oct 31.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Suresh I Prajapati, et al. Near-infrared imaging of injured tissue in living subjects using IR-820. Mol Imaging. 2009 Jan-Feb;8(1):45-54.

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