



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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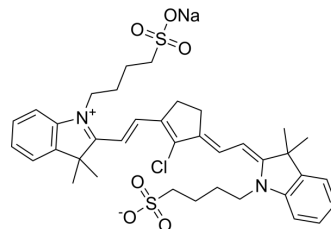
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## IR-806

<b>Cat. No.:</b>	HY-D1724
<b>Molecular Formula:</b>	C <sub>37</sub> H <sub>44</sub> ClN <sub>2</sub> NaO <sub>6</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	735.33
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°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 : 125 mg/mL (169.99 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.3599 mL	6.7997 mL	13.5993 mL
	5 mM	0.2720 mL	1.3599 mL	2.7199 mL
	10 mM	0.1360 mL	0.6800 mL	1.3599 mL

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

### BIOLOGICAL ACTIVITY

#### Description

IR-806 is a near-infrared cyanine liquid crystal dye. IR-806 can be used as a molecular antenna to synthesized nanoprobe (NPs). IR-806 can be used for in vivo imaging studies<sup>[1][2]</sup>.

#### In Vitro

IR-806 (0.1 mg) and folic acid (0.02 mg) were activated with EDC/NHS (1×10<sup>-4</sup> mol) in DMSO (10 mL) solution. After 30 mins, the PL-PEG-NH<sub>2</sub> coated UCN solution (containing UCNs 5 mg) was added and stirred at room temperature for 4 hrs. The reaction product was purified by centrifugation at 10,000 rpm for 5 mins and suspended in 5 mL of DMSO, obtained upconversion nanocrystals (UCNs) for the preparation of nanoprobe<sup>[2]</sup>.

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

### REFERENCES

- [1]. Zhang YF, et al. Multiple hybridized resonances of IR-806 chromonic molecules strongly coupled to Au nanorods. *Nanoscale*. 2015 May 14;7(18):8503-9.
- [2]. Wei Y, et al. Molecular Antenna-Sensitized Upconversion Nanoparticle for Temperature Monitored Precision Photothermal Therapy. *Int J Nanomedicine*. 2020 Mar 2;15:1409-1420.

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

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