



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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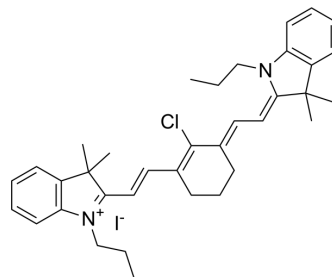
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## IR-780

<b>Cat. No.:</b>	HY-D1063
<b>CAS No.:</b>	207399-07-3
<b>Molecular Formula:</b>	C <sub>36</sub> H <sub>44</sub> ClIN <sub>2</sub>
<b>Molecular Weight:</b>	667.11
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-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

<b>In Vitro</b>	DMSO : 12.5 mg/mL (18.74 mM); ultrasonic and warming and heat to 60°C)				
		<b>Solvent</b>	<b>Mass</b>		
	<b>Preparing Stock Solutions</b>	<b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>	1.4990 mL	7.4950 mL	14.9900 mL
<b>5 mM</b>		0.2998 mL	1.4990 mL	2.9980 mL	
	<b>10 mM</b>	0.1499 mL	0.7495 mL	1.4990 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (1.87 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.25 mg/mL (1.87 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	IR780 is a prototypic NIR heptamethine cyanine agent, with a high molar extinction coefficient. The maximum excitation wavelength of IR780 was 777-780 nm, and the maximum emission wavelength was 798-823 nm. IR780 can be used in cancer PTT/PDT and imaging <sup>[1]</sup> .
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### REFERENCES

[1]. Alves C G, et al. IR780 based nanomaterials for cancer imaging and photothermal, photodynamic and combinatorial therapies [J]. International journal of pharmaceutics, 2018, 542(1-2): 164-175.

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

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