



# 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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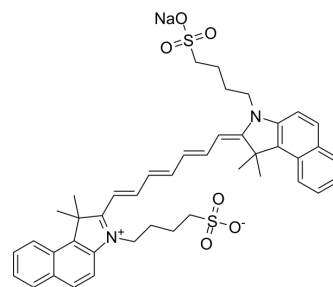
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## Indocyanine green

<b>Cat. No.:</b>	HY-D0711
<b>CAS No.:</b>	3599-32-4
<b>Molecular Formula:</b>	C <sub>43</sub> H <sub>47</sub> N <sub>2</sub> NaO <sub>6</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	774.96
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	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<sub>2</sub>O : 5 mg/mL (6.45 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- 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
- 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<sup>[1]</sup>.

#### 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<sup>[1]</sup>.

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

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## 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](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Gharesi 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.

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

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