



# 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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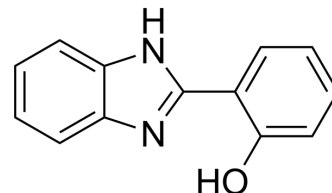
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## 2-(2'-Hydroxyphenyl)benzimidazole

<b>Cat. No.:</b>	HY-W140203
<b>CAS No.:</b>	2963-66-8
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>10</sub> N <sub>2</sub> O
<b>Molecular Weight:</b>	210.23
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (475.67 mM; Need ultrasonic)				
		<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>	4.7567 mL	23.7835 mL	47.5670 mL
		<b>5 mM</b>	0.9513 mL	4.7567 mL	9.5134 mL
<b>10 mM</b>		0.4757 mL	2.3783 mL	4.7567 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: ≥ 2.5 mg/mL (11.89 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	2-(2'-Hydroxyphenyl)benzimidazole is some of the most extensively studied excited state intramolecular proton transfer (ESIPT) molecules exhibiting normal and tautomer emissions. 2-(2'-Hydroxyphenyl)benzimidazole has been applied as a fluorescent probe in various systems <sup>[1]</sup> .
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### REFERENCES

[1]. Chipem FA, et al. Excited state proton transfer of 2-(2'-hydroxyphenyl)benzimidazole and its nitrogen substituted analogues in bovine serum albumin. Photochem Photobiol Sci. 2014 Sep;13(9):1297-304.

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

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