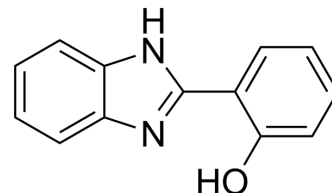


2-(2'-Hydroxyphenyl)benzimidazole

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



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (475.67 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.7567 mL	23.7835 mL	47.5670 mL
		5 mM	0.9513 mL	4.7567 mL	9.5134 mL
	10 mM	0.4757 mL	2.3783 mL	4.7567 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	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

Description	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 ^[1] .
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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.

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

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