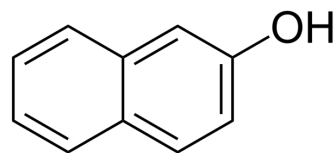


2-Naphthol

Cat. No.:	HY-Y0110
CAS No.:	135-19-3
Molecular Formula:	C ₁₀ H ₈ O
Molecular Weight:	144.17
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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 (693.63 mM)
 H₂O : 1 mg/mL (6.94 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.9363 mL	34.6813 mL	69.3626 mL
	5 mM	1.3873 mL	6.9363 mL	13.8725 mL
	10 mM	0.6936 mL	3.4681 mL	6.9363 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 (17.34 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (17.34 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (17.34 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2-Naphthol is a metabolite of naphthalene, catalyzed by cytochrome P450 (CYP) isozymes (CYP 1A1, CYP 1A2, CYP 2A1, CYP 2E1 and CYP 2F2).

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

2-Naphthol is a metabolite of naphthalene, catalyzed by cytochrome P450 (CYP) isozymes (CYP 1A1, CYP 1A2, CYP 2A1, CYP 2E1 and CYP 2F2). 2-Naphthol (10, 25, 50 and 100 μM) causes no cytotoxic effect and the inhibition of peripheral-blood

mononuclear cells proliferation^[1].

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

REFERENCES

[1]. Kapuci M, et al. Determination of cytotoxic and genotoxic effects of naphthalene, 1-naphthol and 2-naphthol on human lymphocyte culture. Toxicol Ind Health. 2014 Feb;30(1):82-9.

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

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