Bisphenol B

Cat. No.: HY-W013935

CAS No.: 77-40-7

Molecular Formula: $C_{16}H_{18}O_2$

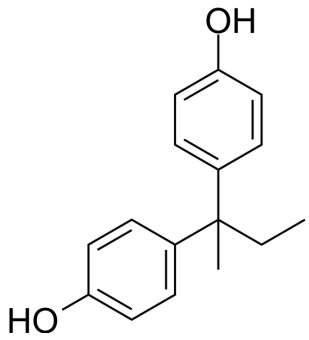
Molecular Weight: 242

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (413.22 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.1322 mL	20.6612 mL	41.3223 mL
5 mM	0.8264 mL	4.1322 mL	8.2645 mL
10 mM	0.4132 mL	2.0661 mL	4.1322 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 (10.33 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (10.33 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bisphenol B is a very close structural analog of Bisphenol A (HY-18260), an endocrine disrupting chemical (EDC) and a substance of very high concern (SVHC) in the European Union (EU) for both human health. Bisphenol B shows endocrine disruptive properties or other adverse effects on animal models[1].

REFERENCES

[1]. Serra H, et al. Evidence for Bisphenol B Endocrine Properties: Scientific and Regulatory Perspectives. Environ Health Perspect. 2019 Oct;127(10):106001.

[2]. Ullah A, et al. Bisphenol A and its analogs bisphenol B, bisphenol F, and bisphenol S: Comparative in vitro and in vivo studies on the sperms and testicular tissues of rats. Chemosphere. 2018 Oct;209:508-516.

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