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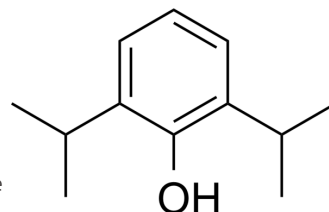
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Propofol

Cat. No.:	HY-B0649
CAS No.:	2078-54-8
Molecular Formula:	C ₁₂ H ₁₈ O
Molecular Weight:	178.27
Target:	GABA Receptor; Endogenous Metabolite
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Pure form -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 (560.95 mM; Need ultrasonic)
H₂O : 0.5 mg/mL (2.80 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.6095 mL	28.0473 mL	56.0947 mL
	5 mM		1.1219 mL	5.6095 mL	11.2189 mL
	10 mM		0.5609 mL	2.8047 mL	5.6095 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 50% PEG300 >> 50% saline
Solubility: 8.33 mg/mL (46.73 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (14.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (14.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (14.02 mM); Clear solution
- Add each solvent one by one: Saline
Solubility: 2.1 mg/mL (11.78 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: PBS
Solubility: 1 mg/mL (5.61 mM); Clear solution; Need ultrasonic and warming and heat to 60°C

BIOLOGICAL ACTIVITY

Description	Propofol potently and directly activates GABA _A receptor and inhibits glutamate receptor mediated excitatory synaptic transmission. Propofol has antinociceptive properties and is used for sedation and hypnotic ^[1] .
IC₅₀ & Target	GABA _A ^[1]
In Vivo	Propofol (i.p.; 40 mg/kg) causes full recovery from sedation occurred 36.3 mins. There is residual antinociception when assessed by ECT but not when assessed by noxious heat ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Inflammation. 2021 Jan 26.
- Eur J Neurosci. 2021 Nov 4.
- Front Biosci (Landmark Ed). 2022, 27(11)
- Biochem Biophys Res Commun. 1 January 2022, Pages 121-128.
- Oncol Lett. 2020 Jul;20(1):810-816.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. R Nadeson, et al. Antinociceptive Properties of Propofol: Involvement of Spinal Cord Gamma-Aminobutyric acid(A) Receptors. J Pharmacol Exp Ther . 1997 Sep;282(3):1181-6.

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

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