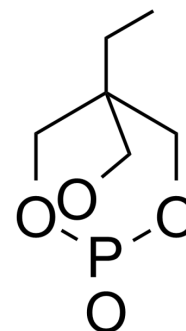


Etbicyphat

Cat. No.:	HY-139145
CAS No.:	1005-93-2
Molecular Formula:	C ₆ H ₁₁ O ₄ P
Molecular Weight:	178.12
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (561.42 mM) * "≥" means soluble, but saturation unknown.					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		5.6142 mL	28.0710 mL	56.1419 mL
		5 mM		1.1228 mL	5.6142 mL	11.2284 mL
		10 mM		0.5614 mL	2.8071 mL	5.6142 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.04 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.04 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Etbicyphat (Trimethylpropane phosphate) is a potent GABA(A) receptors competitive antagonist. Etbicyphat induces epileptiform activities in hippocampal CA1 neurons, and binds to the GABA(A)-benzodiazepine receptors ^[1] .
IC ₅₀ & Target	GABA(A) ^[1]

REFERENCES

[1]. Rijal SO, et al. Dissociation constants for GABA(A) receptor antagonists determined with neuronal networks on microelectrode arrays. J Neurosci Methods. 2008 Aug

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

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