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Zuschläge

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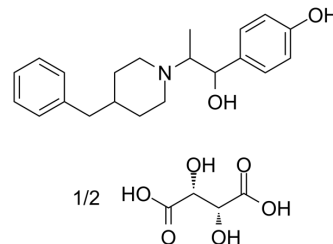
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Ifenprodil tartrate

Cat. No.:	HY-12882A
CAS No.:	23210-58-4
Molecular Formula:	C ₂₅ H ₃₃ NO ₈
Molecular Weight:	400.49
Target:	iGluR; Potassium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 500 mg/mL (1248.47 mM) H ₂ O : 5 mg/mL (12.48 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.4969 mL	12.4847 mL	24.9694 mL
		5 mM	0.4994 mL	2.4969 mL	4.9939 mL
		10 mM	0.2497 mL	1.2485 mL	2.4969 mL
	Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 0.5% CMC-Na/saline water Solubility: 12.22 mg/mL (30.51 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 1% DMSO >> 99% saline Solubility: ≥ 1 mg/mL (2.50 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Ifenprodil tartrate is a typical noncompetitive NMDA receptor antagonist. Ifenprodil tartrate exerts high affinity at NR1A/NR2B receptors (IC ₅₀ =0.34 μM) over 400-fold than at NR1A/NR2A receptors (IC ₅₀ =146 μM) ^[1] . Ifenprodil tartrate inhibits GIRK (Kir3), reduces inward currents through the basal GIRK activity. Ifenprodil tartrate has the potential to be a cerebral vasodilator ^[2] .
IC ₅₀ & Target	IC ₅₀ : 0.34 μM (NR1A/NR2B receptor); 146 μM (NR1A/NR2A receptor) ^[1]
In Vitro	G protein-activated inwardly rectifying K ⁺ channels (GIRK) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Chemosphere. 2019 Aug;229:618-630.
- Exp Brain Res. 2023 Oct 16.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Williams K, et al. Ifenprodil discriminates subtypes of the N-methyl-D-aspartate receptor: selectivity and mechanisms at recombinant heteromeric receptors. Mol Pharmacol. 1993 Oct;44(4):851-9.
- [2]. Kobayashi T, et al. Inhibition of G protein-activated inwardly rectifying K⁺ channels by ifenprodil. Neuropsychopharmacology. 2006 Mar;31(3):516-24.
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Caution: Product has not been fully validated for medical applications. For research use only.

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