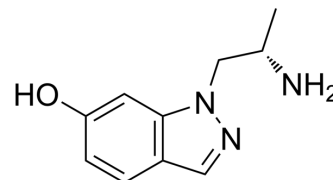


AL-34662

Cat. No.:	HY-125641		
CAS No.:	210580-75-9		
Molecular Formula:	C ₁₀ H ₁₃ N ₃ O		
Molecular Weight:	191.23		
Target:	5-HT Receptor; Adrenergic Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
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 : 62.5 mg/mL (326.83 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	5.2293 mL	26.1465 mL	52.2930 mL
5 mM	1.0459 mL	5.2293 mL	10.4586 mL
10 mM	0.5229 mL	2.6147 mL	5.2293 mL

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

BIOLOGICAL ACTIVITY

Description

AL-34662 is a selective 5-HT_{2A} receptor agonist (IC₅₀: 0.77 nM and 1.5 nM for rat and human 5-HT₂ receptor). AL-34662 is also a weak α-1D adrenergic agonist activity (EC₅₀: 0.4 μM). AL-34662 is an ocular hypotensive agent^{[1][2]}.

IC₅₀ & Target

0.77 nM and 1.5 nM for rat and human 5-HT₂ receptor^[1]

REFERENCES

[1]. Sharif NA, et al. AL-34662: a potent, selective, and efficacious ocular hypotensive serotonin-2 receptor agonist. *J Ocul Pharmacol Ther.* 2007 Feb;23(1):1-13.

[2]. Asano T, et al. Ameliorative effect of chlorpromazine hydrochloride on visceral hypersensitivity in rats: possible involvement of 5-HT_{2A} receptor. *Br J Pharmacol.* 2017 Oct;174(19):3370-3381.

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

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