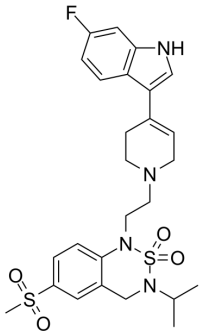
LY393558

Cat. No.:	HY-103089
CAS No.:	271780-64-4
Molecular Formula:	$C_{26}H_{31}FN_4O_4S_2$
Molecular Weight:	546.68
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

LY393558 is a potent and orally active inhibitor of the 5-HT transporter and an antagonist of 5-HT1B and 5-HT1D receptors. LY393558 increase the extracellular levels of 5-HT in mice model frontal cortex. LY393558 can be used for researching depression[1].

In Vivo

LY393558 (1-20 mg/kg; p.o., single) raises extracellular levels of 5-HT to 200-250% at 1 mg/kg in guinea pigs model, while levels of 5-HT to approximately 1500% at the highest dose 20 mg/kg[1].
LY393558 (20 mg/kg; p.o., single) completely abolishes the reduction of levels of 5-HT induced by tetrodotoxin (1μM) in guinea pigs model[1].
LY393558 (1-20 mg/kg; p.o., single) significantly increases extracellular levels of 5-HT in rats model[1].
LY393558 (5 mg/kg/day; p.o., 21 days) can still elicit a further increase in extracellular 5-HT in chronic treatment[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female Dunkin Hartley guinea pigs (350-400 g)[1]
Dosage:	1-20 mg/kg
Administration:	p.o., single
Result:	Extracellular levels of 5-HT reached 200-250% at 1 mg/kg, while levels of 5-HT reached approximately 1500% at the highest dose 20 mg/kg.

Animal Model:	Female Dunkin Hartley guinea pigs (350-400 g)[1]
Dosage:	20 mg/kg
Administration:	p.o., single
Result:	Completely abolished the reduction of levels of 5-HT induced by tetrodotoxin (1μM).

Animal Model:	Male Lister Hooded rats (290-320 g)[1]
Dosage:	1-20 mg/kg

Administration:	p.o., single
Result:	Significantly increased extracellular levels of 5-HT.

Animal Model:	Male Lister Hooded rats (290-320 g)[1]
Dosage:	5 mg/kg/day
Administration:	p.o., 21 days
Result:	Still elicited a further increase in extracellular 5-HT in chronic treatment.

REFERENCES

[1]. Mitchell SN, et al. LY393558, a 5-hydroxytryptamine reuptake inhibitor and 5-HT(1B/1D) receptor antagonist: effects on extracellular levels of 5-hydroxytryptamine in the guinea pig and rat. Eur J Pharmacol. 2001;432(1):19-27.

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