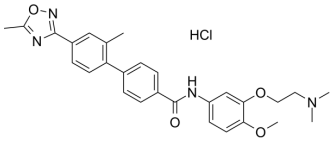
SB-216641A

Cat. No.:	HY-103149
CAS No.:	193611-67-5
Molecular Formula:	$C_{28}H_{31}ClN_4O_4$
Molecular Weight:	523.02
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	SB-216641A (SB-216641 hydrochloride) is a selective antagonist of 5-$HT_{1B/D}$ receptor. SB-216641A shows high affinity and selectivity for h5-HT_{1B} receptors over h5-HT_{1D} receptors. SB-216641A inhibits the function of SKF-99101H[1][2].	
IC_{50} & Target	5-HT_{1B} Receptor	5-HT_{1D} Receptor

In Vivo

SB-216641A (0.6-20 mg/kg; i.p.; single dose) hinders the SKF-99101H induced hypothermia with dose-dependent manner in guinea pigs[1].

SB-216641A (559 nmol/kg; i.v.; single dose) improves the gastric relaxation observed after injection of 800 nmol/kg Sumatriptan (HY-B0121B) in dogs when combined with 5-$HT^{1B/D}$ receptor antagonist GR-127935[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Guinea pigs[1].
Dosage:	0.6, 2.0, 6.0 and 20.0 mg/kg.
Administration:	Intraperitoneal injection; single dose.
Result:	Significantly blocked the effects of SKF-99101H.

Animal Model:	Dogs[2].
Dosage:	559 nmol/kg.
Administration:	Intravenous injection; single dose.
Result:	Improved the gastric relaxation.

REFERENCES

[1]. Hagan JJ, et al. Stimulation of 5-HT1B receptors causes hypothermia in the guinea pig. Eur J Pharmacol. 1997 Jul 23;331(2-3):169-74.

[2]. De Ponti F, et al. Role of 5-HT1B/D receptors in canine gastric accommodation: effect of sumatriptan and 5-HT1B/D receptor antagonists. Am J Physiol Gastrointest

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