SB-216641A

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-103149 193611-67-5 C ₂₈ H ₃₁ ClN ₄ O ₄ 523.02 5-HT Receptor GPCR/G Protein; Neuronal Signaling	
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

		Solvent	1 mg	5 mg	10 mg
		Concentration			
	Preparing Stock Solutions	1 mM	1.9120 mL	9.5599 mL	19.1197 mL
		5 mM	0.3824 mL	1.9120 mL	3.8239 mL
		10 mM	0.1912 mL	0.9560 mL	1.9120 mL

BIOLOGICAL ACTIV	ТТҮ		
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	guinea pigs ^[1] . SB-216641A (559 nmol/kg; i.v Sumatriptan (HY-B0121B) in d	41A (559 nmol/kg; i.v.; single dose) improves the gastric relaxation observed after injection of 800 nmol/kg ptan (HY-B0121B) in dogs when combined with 5-HT ^{1B/D} receptor antagonist GR-127935 ^[2] . a not independently confirmed the accuracy of these methods. They are for reference only. Model: Guinea pigs ^[1] . 0.6, 2.0, 6.0 and 20.0 mg/kg.	

Product Data Sheet

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 Liver Physiol. 2003 Jul;285(1):G96-104.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA