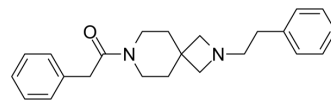


AB21

Cat. No.:	HY-149854
CAS No.:	3026677-23-3
Molecular Formula:	C ₂₃ H ₂₈ N ₂ O
Molecular Weight:	348.48
Target:	Sigma Receptor
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AB21 is a potent and selective S1R antagonist with K _i s of 13, 102 nM for S1R and S2R. AB21 has the effect of reducing mechanical hypersensitivity ^[1] .	
IC₅₀ & Target	Sigma 1 Receptor 13 nM (K _i)	Sigma 2 Receptor 102 nM (K _i)
In Vitro	AB21 shows K _i s of 12 nM and 14 nM with or without Phenytoin in the S1R Radioligand Binding Assay ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	AB21 (20 mg/kg, s.c., administered 30 min before the injection of Capsaicin (HY-10448)) reverses mechanical allodynia in Capsaicin (HY-B0448)-induced pain model, and exhibits higher potency than BD1063 dhydrochloride (HY-18101A) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Capsaicin-induced mechanical hypersensitivity model in mice ^[1]
	Dosage:	20 mg/kg
	Administration:	Subcutaneous injection (s.c.); administered 30 min before the injection of capsaicin
	Result:	Result: Showed complete reversal of the mechanical hypersensitivity reaction and the dose administered was half that of BD-1063 (40 mg/kg).

REFERENCES

[1]. Dichiara M, et al. Synthesis, Computational Insights, and Evaluation of Novel Sigma Receptors Ligands. ACS Chem Neurosci. 2023 May 17;14(10):1845-1858.

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