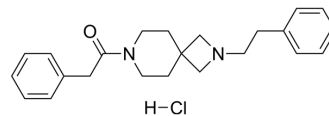


AB21 hydrochloride

Cat. No.:	HY-149854B
CAS No.:	3026677-24-4
Molecular Formula:	C ₂₃ H ₂₉ ClN ₂ O
Molecular Weight:	384.94
Target:	Sigma Receptor
Pathway:	Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	AB21 hydrochloride is a potent and selective S1R antagonist with K _i s of 13, 102 nM for S1R and S2R. AB21 hydrochloride has the effect of reducing mechanical hypersensitivity ^[1] .								
In Vitro	AB21 hydrochloride 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	<p>AB21 hydrochloride (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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Capsaicin-induced mechanical hypersensitivity model in mice^[1].</td> </tr> <tr> <td>Dosage:</td> <td>20 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Subcutaneous injection (s.c.); administered 30 min before the injection of capsaicin.</td> </tr> <tr> <td>Result:</td> <td>Result: Showed complete reversal of the mechanical hypersensitivity reaction and the dose administered was half that of BD-1063 (40 mg/kg).</td> </tr> </table>	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).
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REFERENCES

[1]. Diciara 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.

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