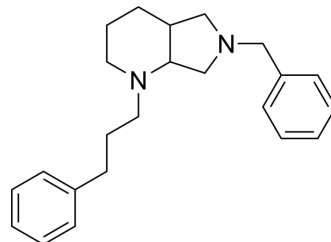


## AB10

Cat. No.:	HY-149855
Molecular Formula:	C <sub>23</sub> H <sub>30</sub> N <sub>2</sub>
Molecular Weight:	334.5
Target:	Sigma Receptor
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	AB10 is a selective S1R antagonist. AB10 with K <sub>i</sub> of 10, 165 nM for S1R and S2R, respectively. AB10 reverses the effect of Capsaicin (HY-10448) caused pain in model <sup>[1]</sup> .									
<b>IC<sub>50</sub> &amp; Target</b>	Sigma 1 Receptor 10 nM (K <sub>i</sub> )	Sigma 2 Receptor 165 nM (K <sub>i</sub> )								
<b>In Vivo</b>	<p>AB10 (20 mg/kg, s.c., administered 30 min before the injection of capsaicin ) induced S1R antagonist effect to reverse pain and showed higher potency than BD-1063 (HY-18101A)<sup>[1]</sup>.</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 as a pain model in CD1 mice<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>20 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>subcutaneous injection performed in different areas of the interscapular zone, administered 30 min before the injection of Capsaicin (HY-10448).</td> </tr> <tr> <td>Result:</td> <td>Achieved similar effects at half the concentration of BD-1063 (HY-18101A) (40mg/kg). Showed complete reversal of the mechanical hypersensitivity reaction.</td> </tr> </table>		Animal Model:	Capsaicin-induced as a pain model in CD1 mice <sup>[1]</sup>	Dosage:	20 mg/kg	Administration:	subcutaneous injection performed in different areas of the interscapular zone, administered 30 min before the injection of Capsaicin (HY-10448).	Result:	Achieved similar effects at half the concentration of BD-1063 (HY-18101A) (40mg/kg). Showed complete reversal of the mechanical hypersensitivity reaction.
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### REFERENCES

[1]. Dichiaro 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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