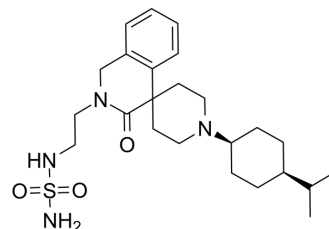


## AT-121

Cat. No.:	HY-112692
CAS No.:	2099681-31-7
Molecular Formula:	C <sub>24</sub> H <sub>38</sub> N <sub>4</sub> O <sub>3</sub> S
Molecular Weight:	462.65
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Solution, -20°C, 2 years



### BIOLOGICAL ACTIVITY

<b>Description</b>	AT-121 is a bifunctional nociception and mu opioid receptor agonist, with K <sub>i</sub> s of 3.67 and 16.49 nM, respectively. AT-121 is a safe, non-addictive analgesic, and shows antinociceptive and antiallodynic effects <sup>[1]</sup> .								
<b>In Vivo</b>	<p>AT-121 (0.003-0.03 mg/kg; s.c.) produces potent antinociceptive effect<sup>[1]</sup>. 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>Adult male and female rhesus monkeys<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>0.003-0.03 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Subcutaneous</td> </tr> <tr> <td>Result:</td> <td>Produced antinociceptive effects against an acute noxious stimulus, 50 °C water, in a dose-dependent.</td> </tr> </table>	Animal Model:	Adult male and female rhesus monkeys <sup>[1]</sup>	Dosage:	0.003-0.03 mg/kg	Administration:	Subcutaneous	Result:	Produced antinociceptive effects against an acute noxious stimulus, 50 °C water, in a dose-dependent.
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### REFERENCES

[1]. Ding H, Kiguchi N, Yasuda D, et al. A bifunctional nociceptin and mu opioid receptor agonist is analgesic without opioid side effects in nonhuman primates. *Sci Transl Med.* 2018;10(456):eaar3483. doi:10.1126/scitranslmed.aar3483

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

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