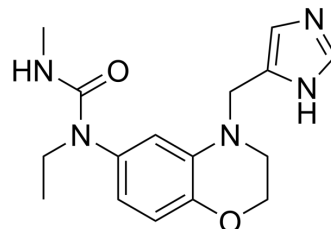


## $\alpha$ 2C adrenoceptor agonist 1

Cat. No.:	HY-158194
CAS No.:	928115-79-1
Molecular Formula:	C <sub>16</sub> H <sub>21</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	315.37
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	$\alpha$ 2C adrenoceptor agonist 1 (Compound A) is an orally active, highly selective, and non-central nervous system penetrating agonist for the $\alpha$ 2C-adrenoceptor, with EC <sub>50</sub> and K <sub>i</sub> values of 108 nM and 12 nM, respectively. $\alpha$ 2C adrenoceptor agonist 1 can be used in the study of nasal congestion <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	Alpha-2C adrenergic receptor 108 nM (EC50)	Alpha-2C adrenergic receptor 12 nM (K <sub>i</sub> )
<b>In Vivo</b>	$\alpha$ 2C adrenoceptor agonist 1 (Compound A) (5 mg/kg; p.o.; single dose) exhibits poor brain permeability in Sprague-Dawley rats, with average values for C <sub>max</sub> , T <sub>max</sub> , and area under the curve being 0.8 $\mu$ M, 0.7 h, and 2 $\mu$ M•h, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

### REFERENCES

[1]. Corboz MR, et al. Pharmacological characterization of a novel  $\alpha$ 2C-adrenoceptor agonist N-[3,4-dihydro-4-(1H-imidazol-4-ylmethyl)-2H-1,4-benzoxazin-6-yl]-N-ethyl-N'-methylurea (compound A). J Pharmacol Exp Ther. 2011;337(1):256-266.

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

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