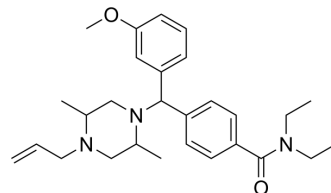


## (Rac)-SNC80

<b>Cat. No.:</b>	HY-101202A
<b>CAS No.:</b>	1217643-87-2
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>39</sub> N <sub>3</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	449.63
<b>Target:</b>	Opioid Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

(Rac)-SNC80 is a racemate of [SNC80](#) (HY-101202). SNC80 (NIH 10815) is a potent, highly selective and non-peptide  $\delta$ -opioid receptor agonist with a  $K_i$  of 1.78 nM and an  $IC_{50}$  of 2.73 nM. SNC80 shows antinociceptive, antihyperalgesic and antidepressant-like effects. SNC80 has the potential for multiple headache disorders treatment<sup>[1][2][3][4][5][6]</sup>.

### REFERENCES

- [1]. Moye LS, et al. Delta opioid receptor agonists are effective for multiple types of headache disorders. *Neuropharmacology*. 2019 Apr;148:77-86.
- [2]. Bilsky EJ, et al. SNC 80, a selective, nonpeptidic and systemically active opioid delta agonist. *J Pharmacol Exp Ther*. 1995 Apr;273(1):359-66.
- [3]. Calderon SN, et al. Probes for narcotic receptor mediated phenomena. 19. Synthesis of (+)-4-[(alpha R)-alpha-((2S,5R)-4-allyl-2,5-dimethyl-1-piperazinyl)-3-methoxybenzyl]-N,N-diethylbenzamide (SNC 80): a highly selective, nonpeptide delta opioid receptor agonist. *J Med Chem*. 1994 Jul 8;37(14):2125-8.
- [4]. Metcalf MD, et al. The  $\delta$  opioid receptor agonist SNC80 selectively activates heteromeric  $\mu$ - $\delta$  opioid receptors. *ACS Chem Neurosci*. 2012 Jul 18;3(7):505-9.
- [5]. Vicente-Sanchez A, et al. The delta opioid receptor tool box. *Neuroscience*. 2016 Dec 3;338:145-159.
- [6]. Dripps IJ, et al. Role of signalling molecules in behaviours mediated by the  $\delta$  opioid receptor agonist SNC80. *Br J Pharmacol*. 2018 Mar;175(6):891-901.

---

**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](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA