
Product Data Sheet

Product Name: (Rac)-SNC80

Cat. No.: GC69798

Chemical Properties

Cas. No. 1217643-87-2

Formula $C_{28}H_{39}N_3O_2$ M.Wt 449.63

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

(Rac)-SNC80 is a racemate of 2). SNC80 (NIH 10815) is a potent, highly selective and non-peptide **δ -opioid receptor** agonist with a K_i of 1.78 nM and an IC_{50} of 2.73 nM. SNC80 shows antinociceptive, antiperalgesic and antidepressant-like effects. SNC80 has the potential for multiple headache disorders treatment^{[1][2][3][4][5][6]}.

[1]. Moyer 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-[(α R)- α -((2S,5R)-4-allyl-2,5-dimethyl-1-piperazinyl)-3-methoxybenzyl]-N,N-dietylbenzamide (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 δ opioid receptor agonist SNC80 selectively activates heteromeric μ - δ 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 δ opioid

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

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receptor agonist SNC80. Br J Pharmacol. 2018 Mar;175(6):891-901.

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