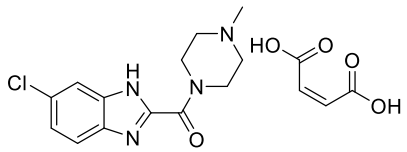
Product data sheet

MedKoo Cat#: 565275 Name: JNJ-10191584 Maleate CAS: 869497-75-6 Chemical Formula: $C_{17}H_{19}ClN_4O_5$ Molecular Weight: 394.812	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years.
	In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:
JNJ-10191584 maleate is a highly selective histamine H4 receptor silent antagonist.

2. CoA, QC data, SDS, and handling instruction
SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	19.74	50.0

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.53 mL	12.66 mL	25.33 mL
5 mM	0.51 mL	2.53 mL	5.07 mL
10 mM	0.25 mL	1.27 mL	2.53 mL
50 mM	0.05 mL	0.25 mL	0.51 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator
Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study
In vitro study

1. Desmadryl G, Gaboyard-Niay S, Brugeaud A, Travo C, Broussy A, Saleur A, Dyhrfjeld-Johnsen J, Wersinger E, Chabbert C. Histamine H4 receptor antagonists as potent modulators of mammalian vestibular primary neuron excitability. Br J Pharmacol. 2012 Oct;167(4):905-16. doi: 10.1111/j.1476-5381.2012.02049.x. PMID: 22624822; PMCID: PMC3575788.

In vivo study

1. Sanna MD, Lucarini L, Durante M, Ghelardini C, Masini E, Galeotti N. Histamine H4 receptor agonist-induced relief from painful peripheral neuropathy is mediated by inhibition of spinal neuroinflammation and oxidative stress. Br J Pharmacol. 2017 Jan;174(1):28-40. doi: 10.1111/bph.13644. Epub 2016 Nov 18. PMID: 27714773; PMCID: PMC5341487.
2. Kaneko H, Ye F, Ijima R, Kachi S, Kato S, Nagaya M, Higuchi A, Terasaki H. Histamine H4 receptor as a new therapeutic target for choroidal neovascularization in age-related macular degeneration. Br J Pharmacol. 2014 Aug;171(15):3754-63. doi: 10.1111/bph.12737. PMID: 24787705; PMCID: PMC4128071.

7. Bioactivity
Biological target:
JNJ-10191584 maleate is a highly selective histamine H4 receptor silent antagonist.

In vitro activity

Product data sheet

Application of betahistine inhibited the evoked action potential firing starting at micromolar range, accompanied by subsequent strong neuronal depolarization at higher concentrations. Conversely, reversible inhibitory effects elicited by JNJ 10191584 and JNJ 7777120 began in the nanomolar range, without inducing neuronal depolarization.

Reference: Br J Pharmacol. 2012 Oct;167(4):905-16. https://pubmed.ncbi.nlm.nih.gov/22624822/

In vivo activity

The SNI mice showed an increased spinal expression of IL-1ß in both the ipsilateral and contralateral side that was reduced by VUF 8430 (20 μg). Pretreatment with JNJ 10151984 antagonized the H_4 receptor agonist-induced antihyperalgesic effect (Figure 2C).

Reference: Br J Pharmacol. 2017 Jan;174(1):28-40. https://pubmed.ncbi.nlm.nih.gov/27714773/

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.