

Product data sheet



MedKoo Cat#: 526860 Name: GW-803430 CAS: 515141-51-2 Chemical Formula: C ₂₅ H ₂₄ ClN ₃ O ₃ S Exact Mass: 481.1227 Molecular Weight: 481.995		
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:

GW-803430 is a potent, orally active and selective melanin-concentrating hormone receptor 1 (MCH1) antagonist (IC₅₀ = 9.3 nM). GW-803430 displays antiobesity and antidepressant-like effects in rats and mice.

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
DMF	2.0	4.15
DMSO	2.0	4.15
Ethanol	2.0	4.15

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.07 mL	10.37 mL	20.75 mL
5 mM	0.41 mL	2.07 mL	4.15 mL
10 mM	0.21 mL	1.04 mL	2.08 mL
50 mM	0.04 mL	0.21 mL	0.41 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

TBD

In vivo study

1. Sanathara NM, Garau C, Alachkar A, Wang L, Wang Z, Nishimori K, Xu X, Civelli O. Melanin concentrating hormone modulates oxytocin-mediated marble burying. *Neuropharmacology*. 2018 Jan;128:22-32. doi: 10.1016/j.neuropharm.2017.09.008. Epub 2017 Sep 6. PMID: 28888943; PMCID: PMC5830107.

2. Alachkar A, Alhassen L, Wang Z, Wang L, Onouye K, Sanathara N, Civelli O. Inactivation of the melanin concentrating hormone system impairs maternal behavior. *Eur Neuropsychopharmacol*. 2016 Nov;26(11):1826-1835. doi: 10.1016/j.euroneuro.2016.08.014. Epub 2016 Sep 9. PMID: 27617778; PMCID: PMC5929110.

7. Bioactivity

Biological target:

GW-803430 (GW-3430) is a potent and selective melanin-concentrating hormone receptor 1 (MCH R1) antagonist with a pIC₅₀ of 9.3.

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In vitro activity

TBD

In vivo activity

Pretreatment with 3 mg/kg dose of GW803430, significantly reversed the MCH, OT, and MCH+OT mediated reduction in marble burying (Fig. 6A) in mice.

Reference: Neuropharmacology. 2018 Jan;128:22-32. <https://pubmed.ncbi.nlm.nih.gov/28888943/>

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.