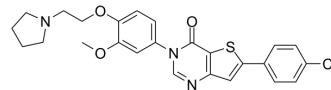


## GW-803430

Cat. No.:	HY-11083		
CAS No.:	515141-51-2		
Molecular Formula:	C <sub>25</sub> H <sub>24</sub> ClN <sub>3</sub> O <sub>3</sub> S		
Molecular Weight:	481.99		
Target:	MCHR1 (GPR24)		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	GW-803430 (GW-3430) is a potent and selective melanin-concentrating hormone receptor 1 (MCH R1) antagonist with a pIC <sub>50</sub> of 9.3. GW-803430 is orally active in an animal model of obesity <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	pIC <sub>50</sub> : 9.3 (MCH R1) <sup>[1]</sup>	
<b>In Vitro</b>	GW-803430 demonstrates a potent antagonist activity towards MCH induced MCHR1 receptor with an IC <sub>50</sub> value of ~13 nM <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
<b>In Vivo</b>	GW-803430 (0.3, 3, and 15 mg/kg; oral administration; once daily) causes a sustained dose-dependent weight loss relative to vehicle controls <sup>[1]</sup> .	
	GW-803430 is a suitable compound for its good pharmacokinetic properties (bioavailability=31%, t <sub>1/2</sub> =11 h) and brain penetration (6:1 brain:plasma concentration) in mice <sup>[1]</sup> .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	High fat diet-induced obese AKR/J mice <sup>[1]</sup>
	Dosage:	0.3, 3, and 15 mg/kg
Administration:	Orally, qd, 12 days	
Result:	Caused a sustained dose-dependent weight loss of -6.2%, -12.1%, and -13.1%, respectively, relative to vehicle controls.	

### REFERENCES

[1]. Hertzog DL, et al. The discovery and optimization of pyrimidinone-containing MCH R1 antagonists. *Bioorg Med Chem Lett*. 2006 Sep 15;16(18):4723-7.

[2]. Velusami CC, et al. Effect of *Nelumbo nucifera* Petal Extracts on Lipase, Adipogenesis, Adipolysis, and Central Receptors of Obesity. *Evid Based Complement Alternat Med*. 2013;2013:145925.

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

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