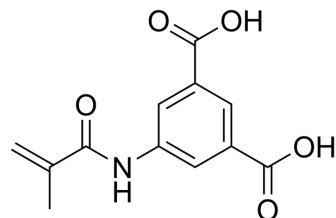


## MS15203

Cat. No.:	HY-116797
CAS No.:	73912-52-4
Molecular Formula:	C <sub>12</sub> H <sub>11</sub> NO <sub>5</sub>
Molecular Weight:	249.22
Target:	GPR171
Pathway:	GPCR/G Protein
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (200.63 mM); ultrasonic and warming and heat to 60°C					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.0125 mL	20.0626 mL	40.1252 mL	
		5 mM	0.8025 mL	4.0125 mL	8.0250 mL	
		10 mM	0.4013 mL	2.0063 mL	4.0125 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (10.03 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (10.03 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

Description	MS15203 is a potent and selective GPR171 agonist. MS15203 increases food intake and body weight. MS15203 increases neuronal activity. MS15203 significantly increases the abundance of the mRNAs encoding proSAAS, NPY, AgRP <sup>[1]</sup> .
In Vitro	MS15203 (MS0015203) dose-dependently increases [ <sup>35</sup> S]GTPγS binding and inhibits adenylyl cyclase activity in rat hypothalamic membranes <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	MS15203 (MS0015203) (3 mg/kg; i.p.) causes an increase in neuronal activity within cells containing GPR171 in the PVN <sup>[1]</sup> . .MS15203 (3 mg/kg; i.p.) significantly increases food intake at 4 and 8 hours <sup>[1]</sup> . MS15203 (3 mg/kg; i.p.) significantly increases the abundance of the mRNAs encoding proSAAS, NPY, AgRP <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Wardman JH, et al. Identification of a small-molecule ligand that activates the neuropeptide receptor GPR171 and increases food intake. *Sci Signal*. 2016 May 31;9(430):ra55.

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

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