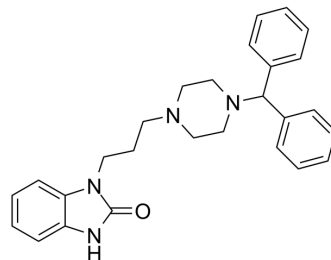


## Oxatomide

<b>Cat. No.:</b>	HY-123205
<b>CAS No.:</b>	60607-34-3
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>30</sub> N <sub>4</sub> O
<b>Molecular Weight:</b>	426.55
<b>Target:</b>	Histamine Receptor; P2X Receptor; 5-HT Receptor
<b>Pathway:</b>	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Membrane Transporter/Ion Channel
<b>Storage:</b>	Powder    -20°C    3 years 4°C        2 years In solvent   -80°C    2 years -20°C    1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (586.10 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.3444 mL	11.7220 mL	23.4439 mL
		5 mM	0.4689 mL	2.3444 mL	4.6888 mL
		10 mM	0.2344 mL	1.1722 mL	2.3444 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<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: ≥ 2.08 mg/mL (4.88 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.88 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (4.88 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Oxatomide is a potent and orally active dual H <sub>1</sub> -histamine receptor and P2X <sub>7</sub> receptor antagonist with antihistamine and anti-allergic activity. Oxatomide almost completely blocks the ATP-induced current in human P2X <sub>7</sub> receptors (IC <sub>50</sub> of 0.95 μM). Oxatomide inhibits ATP-induced Ca <sup>2+</sup> influx with an IC <sub>50</sub> value of 0.43 μM and also inhibits serotonin <sup>[1][2]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	H <sub>1</sub> Receptor	P2X <sub>7</sub>	serotonin

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## REFERENCES

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[1]. Kazuki Yoshida, et al. P2X7 receptor antagonist activity of the anti-allergic agent oxatomide. Eur J Pharmacol. 2015 Nov 15;767:41-51.

[2]. K Ohmori, et al. Pharmacological studies on oxatomide (KW-4354). (7) Antagonistic effects on chemical mediators. Nihon Yakurigaku Zasshi. 1983 May;81(5):399-409.

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

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