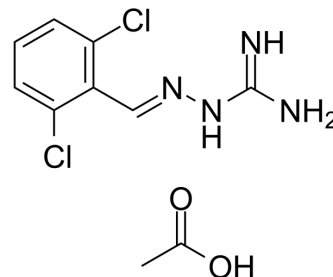


## Guanabenz Acetate

Cat. No.:	HY-B0566
CAS No.:	23256-50-0
Molecular Formula:	C <sub>10</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	291.13
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 51 mg/mL (175.18 mM) H <sub>2</sub> O : 2.5 mg/mL (8.59 mM); ultrasonic and warming and heat to 60°C * "≥" means soluble, but saturation unknown.																				
	<table border="1"> <thead> <tr> <th rowspan="2">Preparing Stock Solutions</th> <th>Solvent Concentration</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>3.4349 mL</td> <td>17.1745 mL</td> <td>34.3489 mL</td> <td></td> </tr> <tr> <td>5 mM</td> <td>0.6870 mL</td> <td>3.4349 mL</td> <td>6.8698 mL</td> <td></td> </tr> <tr> <td>10 mM</td> <td>0.3435 mL</td> <td>1.7174 mL</td> <td>3.4349 mL</td> <td></td> </tr> </tbody> </table> <p>Please refer to the solubility information to select the appropriate solvent.</p>	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	3.4349 mL	17.1745 mL	34.3489 mL		5 mM	0.6870 mL	3.4349 mL	6.8698 mL		10 mM	0.3435 mL	1.7174 mL	3.4349 mL
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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 (8.59 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.59 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (8.59 mM); Clear solution</li> </ol>																				

### BIOLOGICAL ACTIVITY

Description	Guanabenz (Acetate) (BR-750) is an alpha-2 selective adrenergic agonist used as an antihypertensive agent.
IC <sub>50</sub> & Target	Alpha-2 Adrenergic Receptor <sup>[1]</sup> .
In Vitro	Guanabenz is an alpha agonist of the alpha-2 type that is used as an antihypertensive drug. It is used to treat high blood pressure (hypertension) <sup>[1][2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Nature. 2023 Sep;621(7977):188-195.
- Cell Rep. 2019 Dec 3;29(10):2929-2935.e4

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## REFERENCES

[1]. Walker, B.R., L.E. Hare, and M.W. Deitch, Comparative antihypertensive effects of guanabenz and clonidine. J Int Med Res, 1982. 10(1): p. 6-14.

[2]. Bonham, A.C., et al., Studies on the mechanism of the central antihypertensive effect of guanabenz and clonidine. J Hypertens Suppl, 1984. 2(3): p. S543-6.

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

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