

## Guanabenz hydrochloride

## Chemical Properties

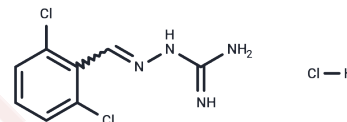
CAS No. : 23113-43-1

Formula: C<sub>8</sub>H<sub>9</sub>Cl<sub>3</sub>N<sub>4</sub>

Molecular Weight: 267.54

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Guanabenz hydrochloride (NE56490) is an orally active $\alpha_2$ -adrenoceptor agonist with hypotensive effects.
Targets(IC50)	Adrenergic Receptor,Parasite
In vivo	Maximum concentrations of guanabenz hydrochloride in plasma (1.2 to 5.2 ng/ml) reached 2 to 5 hours after administration of capsules containing 16 or 32 mg of <sup>14</sup> C-labelled guanabenz hydrochloride. Guanabenz hydrochloride was 90% bound to human plasma proteins. Guanabenz hydrochloride competed for imidazoline I <sub>2</sub> -binding sites in brown adipose tissue with K <sub>i</sub> of 97 nM.

## Solubility Information

Solubility	DMSO: 55 mg/mL (205.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.48 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.7378 mL	18.6888 mL	37.3776 mL
5 mM	0.7476 mL	3.7378 mL	7.4755 mL
10 mM	0.3738 mL	1.8689 mL	3.7378 mL
50 mM	0.0748 mL	0.3738 mL	0.7476 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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