

## Chlorazaniil

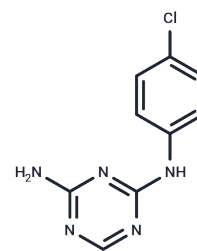
## Chemical Properties

CAS No. : 500-42-5

Formula: C<sub>9</sub>H<sub>8</sub>ClN<sub>5</sub>

Molecular Weight: 221.65

Storage: Keep away from moisture, Store at low temperature,  
Store under nitrogen  
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	Chlorazaniil is a triazine-derived compound that functions as a novel, orally active, and non-toxic diuretic. Chlorazaniil exerts its pharmacological effect by selectively blocking sodium and chloride ion reabsorption in the distal renal tubule, promoting diuresis and modulating electrolyte balance without inducing significant systemic toxicity, in addition, chlorazaniil increases renal prostaglandin activity by increased prostaglandin synthesis, marking it as a valuable agent in renal physiology research and diuretic drug development.
Targets(IC50)	Prostaglandin Receptor

## Solubility Information

Solubility	DMSO: 85 mg/mL (383.49 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5116 mL	22.5581 mL	45.1162 mL
5 mM	0.9023 mL	4.5116 mL	9.0232 mL
10 mM	0.4512 mL	2.2558 mL	4.5116 mL
50 mM	0.0902 mL	0.4512 mL	0.9023 mL

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.

Reference

Thevis M, et al. Formation of the diuretic chlorazanyl from the antimalarial drug proguanil--implications for sports drug testing. J Pharm Biomed Anal. 2015 Nov 10;115:208-13.

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