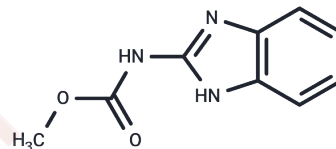


## Carbendazim

## Chemical Properties

CAS No. :	10605-21-7
Formula:	C <sub>9</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	191.19
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Carbendazim (Mercarazole) is a broad-spectrum benzimidazole antifungal with potential antimitotic and antineoplastic activities. Although the exact mechanism of action is unclear, carbendazim appears to bind to an unspecified site on tubulin and suppresses microtubule assembly dynamic. This results in cell cycle arrest at the G <sub>2</sub> /M phase and an induction of apoptosis.
Targets(IC50)	Parasite, Antifungal

## Solubility Information

Solubility	DMSO: 7.82 mg/mL (40.9 mM), ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2304 mL	26.152 mL	52.304 mL
5 mM	1.0461 mL	5.2304 mL	10.4608 mL
10 mM	0.523 mL	2.6152 mL	5.2304 mL
50 mM	0.1046 mL	0.523 mL	1.0461 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

Jiang J, et al. Toxicol In Vitro. 2015 Oct;29(7):1473-81.

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