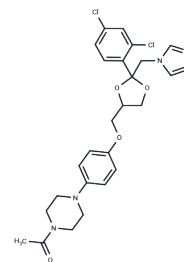


## (Rac)-Ketoconazole

## Chemical Properties

CAS No. :	79156-75-5
Formula:	C <sub>26</sub> H <sub>28</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>4</sub>
Molecular Weight:	531.43
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	(Rac)-Ketoconazole ((Rac)-R 41400) is an orally active antifungal imidazole compound. It inhibits ergosterol synthesis in fungi by targeting the cytochrome P450-dependent enzyme, 14 $\alpha$ -sterol demethylase (CYP51), on the fungal cell membrane. This disruption leads to dysfunction of the cell membrane, ultimately hindering fungal growth and proliferation. (Rac)-Ketoconazole is applicable in studying fungal infections.
Targets(IC50)	Antifungal,Cytochromes P450

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8817 mL	9.4086 mL	18.8172 mL
5 mM	0.3763 mL	1.8817 mL	3.7634 mL
10 mM	0.1882 mL	0.9409 mL	1.8817 mL
50 mM	0.0376 mL	0.1882 mL	0.3763 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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