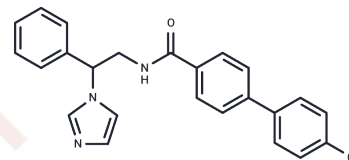


SDZ285428

## Chemical Properties

CAS No. : 174262-13-6  
 Formula: C<sub>24</sub>H<sub>20</sub>ClN<sub>3</sub>O  
 Molecular Weight: 401.89  
 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	SDZ285428 is a CYP24A1 inhibitor.
Targets(IC50)	Parasite,Antifungal,Cytochromes P450

## Solubility Information

Solubility	DMSO: 22.5 mg/mL (55.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.98 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

	1mg	5mg	10mg
1 mM	2.4882 mL	12.4412 mL	24.8824 mL
5 mM	0.4976 mL	2.4882 mL	4.9765 mL
10 mM	0.2488 mL	1.2441 mL	2.4882 mL
50 mM	0.0498 mL	0.2488 mL	0.4976 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

Bruno RD1, et al. Targeting cytochrome P450 enzymes: a new approach in anti-cancer drug development. *Bioorg Med Chem.* 2007 Aug 1;15(15):5047-60.

Lin W, Zou H, Mo J, et al. Micro1278 Leads to Tumor Growth Arrest, Enhanced Sensitivity to Oxaliplatin and Vitamin D and Inhibits Metastasis via KIF5B, CYP24A1, and BTG2, Respectively. *Frontiers in Oncology.* 2021 Mar 11;11: 637878. doi: 10.3389/fonc.2021.637878. eCollection 2021.

Gomaa MS, et al. Homology model of 1 $\alpha$ ,25-dihydroxyvitamin D3 24-hydroxylase cytochrome P450 24A1 (CYP24A1): active site architecture and ligand binding. *J Steroid Biochem Mol Biol.* 2007 Apr;104(1-2):53-60.

Lin W, Zou H, Mo J, et al. Micro1278 Leads to Tumor Growth Arrest, Enhanced Sensitivity to Oxaliplatin and Vitamin D and Inhibits Metastasis via KIF5B, CYP24A1, and BTG2, Respectively[J]. *Frontiers in Oncology.* 2021, 11: 666.

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