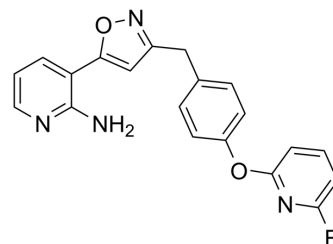


## APX2039

Cat. No.:	HY-147110		
CAS No.:	2342606-49-7		
Molecular Formula:	C <sub>20</sub> H <sub>15</sub> FN <sub>4</sub> O <sub>2</sub>		
Molecular Weight:	362.36		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 100 mg/mL (275.97 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7597 mL	13.7984 mL	27.5969 mL
	5 mM	0.5519 mL	2.7597 mL	5.5194 mL
	10 mM	0.2760 mL	1.3798 mL	2.7597 mL

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

### Description

APX2039 is an orally active and potent inhibitor of the fungal Gwt1 enzyme. APX2039 has extremely potent anticytotoxic activity against *C. neoformans* and *C. gattii*. APX2039 blocks the localization of GPI (glycosylphosphatidyl inositol)-anchored cell wall mannoproteins. APX2039 can be used for Cryptococcal meningitis (CM) research<sup>[1][2]</sup>.

## REFERENCES

- [1]. Karen J Shaw, et al. 168. Efficacy of the Novel gwt1 Inhibitor APX2039 in a Rabbit Model of cryptococcus Meningitis. Open Forum Infect Dis. 2020 Dec 31.
- [2]. Yu CH, et al. Gene Expression of Diverse Cryptococcus Isolates during Infection of the Human Central Nervous System. mBio. 2021 Dec 21;12(6):e0231321.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA