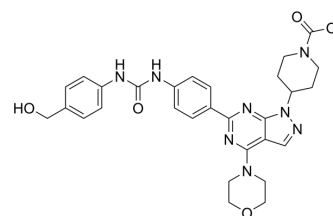


## mTOR inhibitor WYE-28

Cat. No.:	HY-118717		
CAS No.:	1062172-60-4		
Molecular Formula:	C <sub>30</sub> H <sub>34</sub> N <sub>8</sub> O <sub>5</sub>		
Molecular Weight:	586.64		
Target:	mTOR		
Pathway:	PI3K/Akt/mTOR		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 60 mg/mL (102.28 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.7046 mL	8.5231 mL	17.0462 mL
	5 mM		0.3409 mL	1.7046 mL	3.4092 mL
	10 mM		0.1705 mL	0.8523 mL	1.7046 mL

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

### BIOLOGICAL ACTIVITY

#### Description

mTOR inhibitor WYE-28 (compound 28) is a selective inhibitor of mTOR<sup>1</sup> (IC<sub>50</sub>)=0.08 nM. mTOR inhibitor WYE-28 inhibits PI3Kα with an IC<sub>50</sub> value of 6 nM. mTOR inhibitor WYE-28 shows a metabolic time (T<sub>1/2</sub>) in nude mouse microsomes of 13 min<sup>[1]</sup>.

### REFERENCES

[1]. Zask A, et al. ATP-competitive inhibitors of the mammalian target of rapamycin: design and synthesis of highly potent and selective pyrazolopyrimidines. J Med Chem. 2009 Aug 27;52(16):5013-6.

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

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