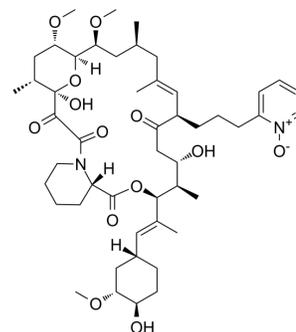


## RapaBlock

<b>Cat. No.:</b>	HY-153806		
<b>CAS No.:</b>	2474076-02-1		
<b>Molecular Formula:</b>	C <sub>49</sub> H <sub>74</sub> N <sub>2</sub> O <sub>13</sub>		
<b>Molecular Weight:</b>	899.12		
<b>Target:</b>	FKBP		
<b>Pathway:</b>	Apoptosis; Autophagy; Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (111.22 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.1122 mL	5.5610 mL	11.1220 mL
	5 mM	0.2224 mL	1.1122 mL	2.2244 mL
	10 mM	0.1112 mL	0.5561 mL	1.1122 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (2.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (2.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (2.78 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

RapaBlock is a potent, non-immunosuppressive and brain-impermeable FKBP12 ligand<sup>[1]</sup>.

#### In Vitro

RapaBlock appears more effective at blocking rapamycin, restoring the phospho-S6 signal to the same level as untreated cells at 100:1 stoichiometry<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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