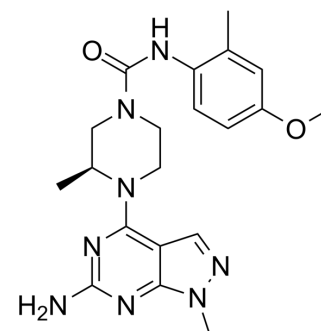


## UCB9608

<b>Cat. No.:</b>	HY-112613		
<b>CAS No.:</b>	1616413-96-7		
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>26</sub> N <sub>8</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	410.47		
<b>Target:</b>	PI4K		
<b>Pathway:</b>	PI3K/Akt/mTOR		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 65 mg/mL (158.36 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.4362 mL	12.1812 mL	24.3623 mL
5 mM	0.4872 mL	2.4362 mL	4.8725 mL
10 mM	0.2436 mL	1.2181 mL	2.4362 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: ≥ 2.08 mg/mL (5.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (5.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (5.07 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

UCB9608 is a potent, selective and orally active PI4KIIIβ inhibitor, with an IC<sub>50</sub> of 11 nM, selective over PI3KC2 α, β, and γ lipid kinases. UCB9608 improves metabolic stability and exhibits excellent pharmacokinetic profile, acts as a potent immunosuppressive agent<sup>[1]</sup>.

#### In Vitro

UCB9608 is a potent, selective and orally active PI4KIIIβ inhibitor, with an IC<sub>50</sub> of 11 nM. UCB9608 is selective for PI4KIIIβ over PI3KC2 α, β, and γ lipid kinases<sup>[1]</sup>. UCB9608 inhibits human mixed lymphocyte reaction, the IC<sub>50</sub> is 37 nM<sup>[1]</sup>.

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

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- Patent. US20220273624A1.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Reuberson J, et al. Discovery of a Potent, Orally Bioavailable PI4KIII $\beta$  Inhibitor (UCB9608) Able To Significantly Prolong Allogeneic Organ Engraftment in Vivo. J Med Chem. 2018 Aug 9;61(15):6705-6723.

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

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