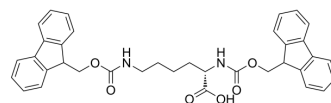


## Fmoc-Lys(Fmoc)-OH

<b>Cat. No.:</b>	HY-W008386		
<b>CAS No.:</b>	78081-87-5		
<b>Molecular Formula:</b>	C <sub>36</sub> H <sub>34</sub> N <sub>2</sub> O <sub>6</sub>		
<b>Molecular Weight:</b>	590.66		
<b>Target:</b>	Amino Acid Derivatives		
<b>Pathway:</b>	Others		
<b>Storage:</b>	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 (169.30 mM; Need ultrasonic)  
DMF : 100 mg/mL (169.30 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.6930 mL	8.4651 mL	16.9302 mL
	5 mM	0.3386 mL	1.6930 mL	3.3860 mL
	10 mM	0.1693 mL	0.8465 mL	1.6930 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMF >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (4.23 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMF >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.23 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Fmoc-Lys(Fmoc)-OH is a lysine derivative<sup>[1]</sup>.

#### In Vitro

Amino acids and amino acid derivatives have been commercially used as ergogenic supplements. They influence the secretion of anabolic hormones, supply of fuel during exercise, mental performance during stress related tasks and prevent

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exercise induced muscle damage. They are recognized to be beneficial as ergogenic dietary substances<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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[1]. Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-1144.

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

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