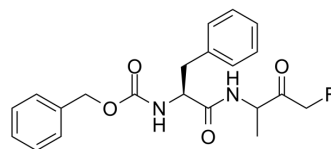


## Z-FA-FMK

Cat. No.:	HY-P0109A	
CAS No.:	197855-65-5	
Molecular Formula:	C <sub>21</sub> H <sub>23</sub> FN <sub>2</sub> O <sub>4</sub>	
Molecular Weight:	386.42	
Target:	SARS-CoV	
Pathway:	Anti-infection	
Storage:	Powder	-80°C 2 years
		-20°C 1 year
	In solvent	-80°C 6 months
		-20°C 1 month



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 250 mg/mL (646.96 mM; Need ultrasonic)

Concentration	Solvent Mass	1 mg	5 mg	10 mg
		1 mM	2.5879 mL	12.9393 mL
5 mM	0.5176 mL	2.5879 mL	5.1757 mL	
10 mM	0.2588 mL	1.2939 mL	2.5879 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 (5.38 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (5.38 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (5.38 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

Z-FA-FMK ((1S)-Z-FA-FMK; Compound 6) is a broad-spectrum halomethyl ketone inhibitor against Coronavirus (SARS-CoV) main protease 3CL with a K<sub>i</sub> of 25.7 μM<sup>[1]</sup>.

### IC<sub>50</sub> & Target

K<sub>i</sub>: 25.7 μM (SARS Protease 3CL<sup>Pro</sup>)<sup>[1]</sup>

## CUSTOMER VALIDATION

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- Nucleic Acids Res. 2021 Jan 8;49(D1):D1113-D1121.
  - Phytomedicine. 2022 Jul;101:154102.

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

## REFERENCES

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[1]. Usman Bacha, et al. Development of broad-spectrum halomethyl ketone inhibitors against coronavirus main protease 3CL(pro). Chem Biol Drug Des. 2008 Jul;72(1):34-49.

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

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