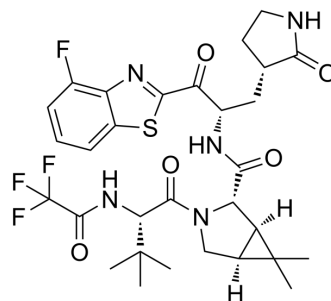


TKB245

Cat. No.:	HY-149606		
CAS No.:	2892688-16-1		
Molecular Formula:	C ₃₀ H ₃₅ F ₄ N ₅ O ₅ S		
Molecular Weight:	653.69		
Target:	SARS-CoV		
Pathway:	Anti-infection		
Storage:	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 (152.98 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.5298 mL	7.6489 mL	15.2978 mL
5 mM	0.3060 mL	1.5298 mL	3.0596 mL
10 mM	0.1530 mL	0.7649 mL	1.5298 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 (3.82 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (3.82 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

TKB245 is a highly potent SARS-CoV-2 Mpro inhibitor that effectively blocks SARS-CoV-2 replication in VeroE6 cells^[1].

REFERENCES

- [1]. Kohei Tsuji, et al. Structure-Activity Relationship Studies of SARS-CoV-2 Main Protease Inhibitors Containing 4-Fluorobenzothiazole-2-carbonyl Moieties. J Med Chem. 2023 Oct 12;66(19):13516-13529.

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

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