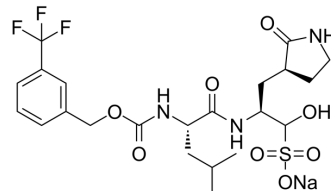


## Coronastat

Cat. No.:	HY-147020
CAS No.:	2922281-15-8
Molecular Formula:	C <sub>22</sub> H <sub>29</sub> F <sub>3</sub> N <sub>3</sub> NaO <sub>8</sub> S
Molecular Weight:	575.53
Target:	SARS-CoV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

#### In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (3.61 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (3.61 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (3.61 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Coronastat is a potent inhibitor of the SARS-CoV-2 3CL protease. The SARS-CoV-2 3CL protease is a critical agent target for small molecule COVID-19, given its likely agentgability and essentiality in the viral maturation and replication cycle<sup>[1]</sup>.

### REFERENCES

[1]. Liu H, et al. Development of optimized drug-like small molecule inhibitors of the SARS-CoV-2 3CL protease for treatment of COVID-19. Nat Commun. 2022;13(1):1891.

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

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