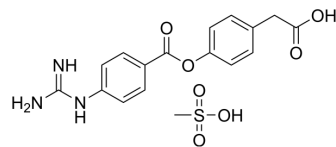


FOY 251

Cat. No.:	HY-19727A
CAS No.:	71079-09-9
Molecular Formula:	C ₁₇ H ₁₉ N ₃ O ₇ S
Molecular Weight:	409.41
Target:	Ser/Thr Protease; SARS-CoV
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (48.85 mM); ultrasonic and adjust pH to 5 with HCl)																							
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Preparing Stock Solutions</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td>2.4425 mL</td> <td>12.2127 mL</td> <td>24.4254 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4885 mL</td> <td>2.4425 mL</td> <td>4.8851 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2443 mL</td> <td>1.2213 mL</td> <td>2.4425 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	Preparing Stock Solutions				1 mM	2.4425 mL	12.2127 mL	24.4254 mL	5 mM	0.4885 mL	2.4425 mL	4.8851 mL	10 mM	0.2443 mL	1.2213 mL	2.4425 mL
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	Please refer to the solubility information to select the appropriate solvent.																							
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2 mg/mL (4.89 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2 mg/mL (4.89 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (4.89 mM); Clear solution 																							

BIOLOGICAL ACTIVITY

Description	FOY 251, an anti-proteolytic active metabolite Camostate (HY-13512), acts as a proteinase inhibitor ^{[1][2]} . FOY 251 inhibits SARS-CoV-2 infection in cells assay ^{[1][3]} .
IC₅₀ & Target	Proteinase ^[1]
In Vitro	FOY-251 represents a dose-dependent inhibition of equivalent current in M-1 cells ^[2] . FOY-251 inhibits the proteolytic activity of prostatic ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nucleic Acids Res. 2021 Jan 8;49(D1):D1113-D1121.

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REFERENCES

- [1]. K Beckh, et al. Elimination of the Low-Molecular Weight Proteinase Inhibitor Camostat (FOY 305) and Its Degradation Products by the Rat Liver. Res Exp Med (Berl). 1987;187(6):401-6.
- [2]. Ai Maekawa, et al. Camostat Mesilate Inhibits Prostatin Activity and Reduces Blood Pressure and Renal Injury in Salt-Sensitive Hypertension. J Hypertens . 2009 Jan;27(1):181-9.
- [3]. Markus Hoffmann, et al. Camostat mesylate inhibits SARS-CoV-2 activation by TMPRSS2-related proteases and its metabolite GBPA exerts antiviral activity. bioRxiv. 2020 Aug 5;2020.08.05.237651.
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Caution: Product has not been fully validated for medical applications. For research use only.

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