

Store at -20°C #42819	Camostat Mesylate	 Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane Danvers Massachusetts 01923 USA
	10 mg	

For Research Use Only. Not for Use in Diagnostic Procedures.

Background

Camostat Mesylate, also known as Foipan or FOY 305, is a synthetic serine protease inhibitor that is often used to treat pancreatitis pain (1). Camostat Mesylate attenuates airway epithelial sodium channel (ENaC) function by inhibiting channel-activating proteases (CAPs) with an IC_{50} of 50 nM (2). Camostat Mesylate inhibition of trypsin decreased food intake, body weight, blood glucose, liver weight, and lipidosis and increased FGF21 expression in obese mice (3).

Camostat Mesylate is an effective inhibitor of TMPRSS2, a serine protease used by SARS-CoV-2/COVID-19 for viral S-protein priming and cell entry. Pre-treatment of human lung cancer cells with 100 μ M Camostat Mesylate significantly reduced COVID-19 viral entry (4).

Molecular Formula

$C_{20}H_{22}N_4O_5 \cdot CH_3SO_3H$

Molecular Weight

494.5 g/mol

Purity

>98%

CAS

59721-29-8

Solubility

Soluble in DMSO at 50 mg/ml or water at 50 mg/ml.

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 1 month to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

Camostat Mesylate is supplied as a lyophilized powder. For a 15 mM stock, reconstitute 10 mg of powder in 1.34 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Ramsey, M.L. et al. (2019) *Trials* 20, 501.
2. Coote, K. et al. (2009) *J Pharmacol Exp Ther* 329, 764-74.
3. Albarazani, K. et al. (2019) *Am J Physiol Gastrointest Liver Physiol* 316, G653-G667.
4. Hoffmann, M. et al. (2020) *Cell* 181, 271-280.e8.

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