

Store at
-20°C

Camostat Mesylate



#42819

10 mg

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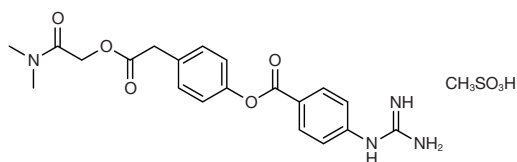
New 04/20

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) Albarazanji, 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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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.