

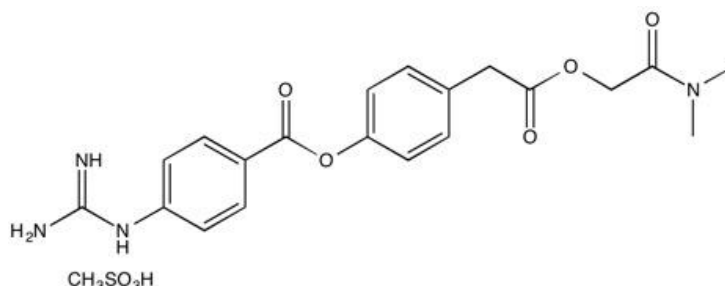
Catalog # 10-2196

Camostat mesilate

CAS# 59721-29-8

4-(2-(2-(Dimethylamino)-2-oxoethoxy)-2-oxoethyl)phenyl 4-guanidinobenzoate
Methanesul-fonic acid salt; FOY-305; Foipan

Lot # X101538



A serine protease inhibitor inhibiting plasmin, kallikrein, thrombin as well as trypsin, which attenuates pancreatic fibrosis.¹ Reduces weight gain and improves metabolism in obese rodent models.² In clinical use (in Japan) for pancreatitis.³ Inhibits influenza virus replication in human tracheal epithelial cells.⁴ Reduces infection of Calu-3 lung cells by SARS-CoV-2 (responsible for COVID-19) via inhibition of the serine protease TMPRSS2 required for viral spike protein priming.⁵

- 1) Gibo *et al.* (2005), *Camostat mesylate attenuates pancreatic fibrosis via inhibition of monocytes and pancreatic stellate cells activity*; Lab Invest., **85** 75
- 2) Albarazani *et al.* (2019), *Intestinal serine protease inhibition increases FGF21 and improves metabolism in obese mice.*; Am. J. Physiol. Gastrointest. Liver Physiol., **316** G653
- 3) Ueda *et al.* (2015), *The serine protease inhibitor camostat mesylate attenuates the progression of chronic kidney disease through its antioxidant effects*; Nephron, **129** 223
- 4) Yamaya *et al.* (2015), *The serine protease inhibitor camostat inhibits influenza virus replication and cytokine production in primary cultures of human tracheal epithelial cells*; Pulm. Pharmacol. Ther., **33** 66
- 5) Hoffmann *et al.* (2020), *SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor*; Cell, **181** 271

PHYSICAL DATA

Molecular Weight:	494.52
Molecular Formula:	C ₂₀ H ₂₂ N ₄ O ₅ · CH ₃ SO ₃ H
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Water (up to 50 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

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