

**DATA SHEET**

**Product Name:** Camostat Mesylate

**Catalog #:** CV-1019

**Alt:** CAS # 59721-29-8; 4-(2-(2-(dimethylamino)-2-oxoethoxy)-2-oxoethyl)phenyl 4guanidinobenzoate, methanesul-fonic acid salt; FOY-305; Foipan

**Molecular Mass:** 494.5

**Analysis:** >98% (HPLC); NMR (Conforms)

**Supplied As:** Off-white powder

**Resuspension:** May be dissolved in DMSO (50 mg/ml); or Water (50 mg/ml)

**Storage:** Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 1 month.

**Pharmacology:** A serine protease inhibitor inhibiting plasmin, kallikrein, thrombin as well as trypsin, which attenuates pancreatic fibrosis<sup>1</sup>. Reduces weight gain and improves metabolism in obese rodent models<sup>2</sup>. In clinical use (in Japan) for pancreatitis<sup>3</sup>. Inhibits influenza virus replication in human tracheal epithelial cells<sup>4</sup>. 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<sup>5</sup>.

**References:**

1. Gibo, J., et al., (2005) *Lab. Invest.*, 85 : 75
2. Albarazanji, K., et al., (2019) *Am. J. Physiol. Gastrointest. Liver Physiol.*, 316 : G653
3. Ueda, M., et al., (2015) *Nephron*, 129 : 223
4. Yamaya, M., et al., (2015) *Pulm. Pharmacol. Ther.*, 33 : 66
5. Hoffmann, M., et al., (2020) *Cell*, 181 : 1

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