

Camostat Mesilate

Serine protease inhibitor

Catalog # S565-906

Lot # N3623-8

CAS # 59721-29-8

Product Description

Molecular Formula: C₂₀H₂₂N₄O₅ • CH₃SO₃H

Appearance: Off-white powder

Molecular Weight: 494.5

Purity: >98% (HPLC); NMR (Conforms)

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

Aliases

4-(2-(2-(dimethylamino)-2-oxoethoxy)-2-oxoethyl)phenyl
4-guanidinobenzoate, methanesul-fonic acid salt;
FOY-305; Foipan

Storage and Stability

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

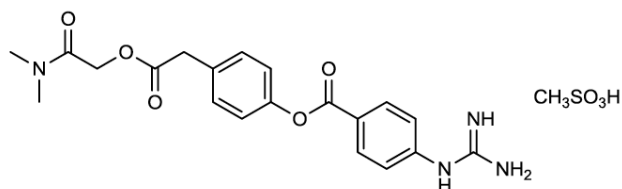
Scientific Background

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).

References

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

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