

Product Name: Camostat mesylate

Catalog No.: 3193

Batch No.: 2

CAS Number: 59721-29-8

IUPAC Name: 4-[[4-[(Aminoiminomethyl)amino]benzoyl]oxy]benzeneacetic acid 2-(dimethylamino)-2-oxoethyl ester methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₂N₄O₅·CH₃SO₃H

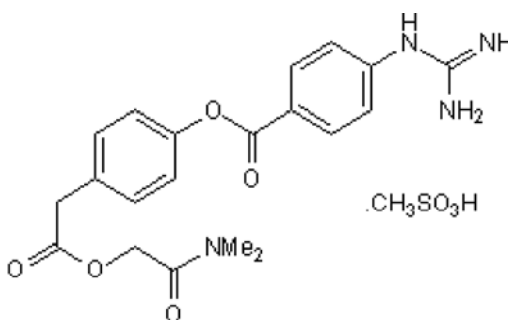
Batch Molecular Weight: 494.52

Physical Appearance: White solid

Solubility: water to 50 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.54	5.35	11.23
Found	50.34	5.28	11.11

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Camostat mesylate is an orally active protease inhibitor. Inhibits trypsin and various inflammatory proteases including plasmin, kallikrein and thrombin. Suppresses pancreatitis-induced pain in rats following oral administration. Also inhibits transmembrane serine protease TMPRSS2 and partially blocks entry of SARS-Cov-2 (COVID-19) into lung cells in vitro. Tocris products are for biomedical research use only. They are not intended for human or veterinary use.

Physical and Chemical Properties:

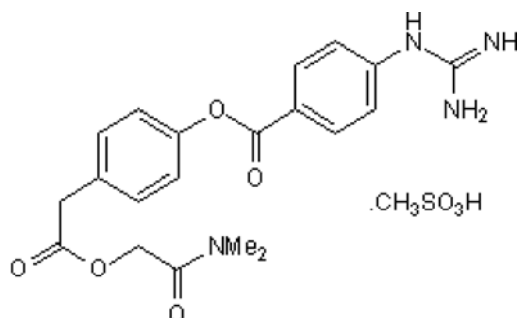
Batch Molecular Formula: C₂₀H₂₂N₄O₅.CH₃SO₃H

Batch Molecular Weight: 494.52

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 mM
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

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. PMID: 32142651 .

Ishikura et al (2007) The proteinase inhibitor camostat mesilate suppresses pancreatic pain in rodents. *Life Sci.* **80** 1999. PMID: 17433371.

Horiuchi et al (1990) Gabexate and camostat, synthetic proteinase inhibitors, as direct inducing factors of water and bicarbonate secretion in the isolated and blood-perfused dog pancreas. *J.Pharmacol.Exp.Ther.* **252** 320. PMID: 1688943.

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