Product Name: Camostat mesylate  
Catalog No.: 3193  
Batch No.: 2  
CAS Number: 59721-29-8  
IUPAC Name: 4-[[4-[[Amino(iminomethyl)amino]benzoyl]oxy]benzeneacetic acid 2-(dimethylamino)-2-oxoethyl ester methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula</td>
<td>C_{20}H_{22}N_{4}O_{5}.CH_{3}SO_{3}H</td>
</tr>
<tr>
<td>Batch Molecular Weight</td>
<td>494.52</td>
</tr>
<tr>
<td>Physical Appearance</td>
<td>White solid</td>
</tr>
<tr>
<td>Solubility</td>
<td>water to 100 mM</td>
</tr>
<tr>
<td></td>
<td>DMSO to 100 mM</td>
</tr>
<tr>
<td>Storage</td>
<td>Desiccate at RT</td>
</tr>
</tbody>
</table>

2. ANALYTICAL DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPLC</td>
<td>Shows 99.2% purity</td>
</tr>
<tr>
<td>\textsuperscript{1}H NMR</td>
<td>Consistent with structure</td>
</tr>
<tr>
<td>Mass Spectrum</td>
<td>Consistent with structure</td>
</tr>
<tr>
<td>Microanalysis</td>
<td>Carbon Hydrogen Nitrogen</td>
</tr>
<tr>
<td></td>
<td>Theoretical 50.54 5.35 11.23</td>
</tr>
<tr>
<td></td>
<td>Found 50.34 5.28 11.11</td>
</tr>
</tbody>
</table>

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

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Catalog No.: 3193
Batch No.: 2

CAS Number: 59721-29-8
IUPAC Name: 4-[[4-[(Aminooiminomethyl)amino]benzoyl]oxy]benzeneacetic acid 2-(dimethylamino)-2-oxoethyl ester methanesulfonate

Description:
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: C_{20}H_{22}N_{4}O_{5}\cdot CH_{3}SO_{3}H
Batch Molecular Weight: 494.52
Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:

![Molecular Structure](image)

Storage: Desiccate at RT

Solubility & Usage Info:
water to 100 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.
