



### Catalog # 10-2216

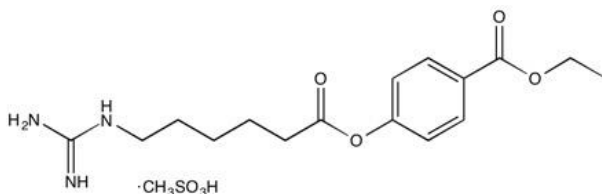
### Gabexate mesylate

CAS# 56974-61-9

4-[[6-[(Aminoiminomethyl)amino]-1-oxohexyl]oxy]benzoic acid, ethyl ester, methanesulfonate

FOY

Lot # X101385



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>

- 1) Gibo *et al.* (2005), *Camostat Mesilate Attenuates Pancreatic Fibrosis via Inhibition of Monocytes and Pancreatic Stellate Cells Activity*; Lab Invest., **85** 75
- 2) Albaranzani *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 Mesilate 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: 417.48  
Molecular Formula: C<sub>16</sub>H<sub>23</sub>N<sub>3</sub>O<sub>4</sub> · CH<sub>3</sub>SO<sub>3</sub>H  
Purity: 98% by HPLC  
NMR: (Conforms)  
Solubility: DMSO (up to 50 mg/ml) or in 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.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

[www.focusbiomolecules.com](http://www.focusbiomolecules.com)