

Product Information

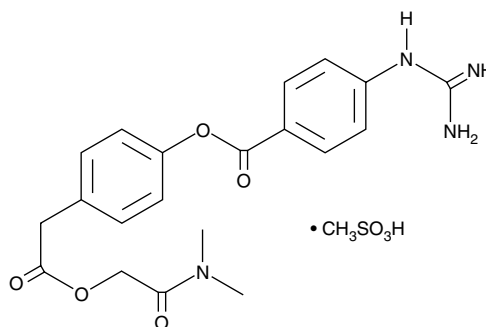


Camostat (mesylate)

Item No. 16018

CAS Registry No.: 59721-29-8
Formal Name: 2-(dimethylamino)-2-oxoethyl ester, 4-[[4-[(aminoiminomethyl)amino]benzoyl]oxy]-benzeneacetic acid, monomethanesulfonate

Synonyms: Foipan, FOY 305
MF: C₂₀H₂₂N₄O₅ • CH₃SO₃H
FW: 494.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 264 nm



Laboratory Procedures

For long term storage, we suggest that camostat (mesylate) be stored as supplied at -20°C. It should be stable for at least two years.

Camostat (mesylate) is supplied as a crystalline solid. A stock solution may be made by dissolving the camostat (mesylate) in the solvent of choice. Camostat (mesylate) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of camostat (mesylate) in these solvents is approximately 25 mg/ml.

Camostat (mesylate) is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Camostat is a trypsin-like protease inhibitor known to inhibit trypsin and various inflammatory proteases including plasmin, kallikrein, and thrombin. A special diet containing 1 mg/g camostat has been shown to inhibit the production of TNF-α and monocyte chemoattractant protein-1 by monocytes and to disrupt proliferation of pancreatic stellate cells in a rat model of pancreatic fibrosis.¹ Protease regulation *via* camostat has also been reported to reversibly inhibit epithelial sodium channel function in human airway epithelial cell models (IC₅₀ = 50 nM) and to enhance mucociliary clearance for up to five hours when administered by aerosol inhalation to sheep.²

References

1. Gibo, J., Ito, T., Kawabe, K., *et al.* Camostat mesilate attenuates pancreatic fibrosis via inhibition of monocytes and pancreatic stellate cells activity. *Lab Invest.* **85(1)**, 75-89 (2005).
2. Coote, K., Atherton-Watson, H.C., Sugar, R., *et al.* Camostat attenuates airway epithelial sodium channel function in vivo through the inhibition of a channel-activating protease. *J. Pharmacol. Exp. Ther.* **329(2)**, 764-774 (2009).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16018

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery.**

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's **exclusive remedy** and Cayman's sole liability hereunder shall be limited to a **refund** of the purchase price, or at Cayman's option, the **replacement**, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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