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15-4008: Camostat (mesylate)

Alternative Name : Foipan, FOY 305

Description

Molecular Formula: $C_{20}H_{22}N_4O_5 \cdot CH_3SO_3H$

Molecular Weight: 494.5

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.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.

Product Info

Amount :	5 mg / 10 mg
Purification :	â‰¥98%
Content :	Camostat (mesylate) is supplied as a crystalline solid.
Storage condition :	Store at -20°C, product is stable for two years, when stored properly.

Application Note

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.

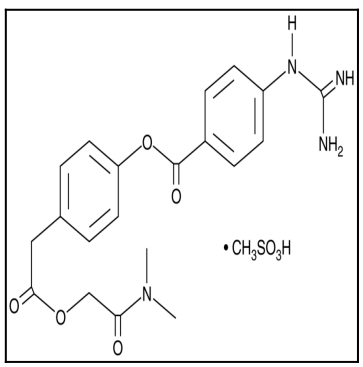

Figure-1: Structure of Camostat (mesylate).

For Research Use Only. Not for use in diagnostic/therapeutics procedures.