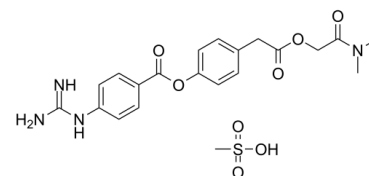


Data Sheet

Product Name:	Camostat (mesylate)
Cat. No.:	CS-2816
CAS No.:	59721-29-8
Molecular Formula:	C ₂₁ H ₂₆ N ₄ O ₈ S
Molecular Weight:	494.52
Target:	Others
Pathway:	Others
Solubility:	H ₂ O : ≥ 50 mg/mL (101.11 mM)



BIOLOGICAL ACTIVITY:

Camostat Mesylate (FOY305; FOY-S980) is a trypsin-like protease inhibitor. Target: Trypsin-like protease. Camostat mesilate (500 mM) inhibits generation of TGF-beta by suppressing plasmin activity and reduces the activity of TGF-beta, which blocks in vitro activation of HSCs [1]. Camostat mesilate (20 mM) combined with insulin results in a significant hypoglycemic effect following large intestinal administration. Camostat mesilate (20 mM) is effective in reducing insulin degradation in both small and large intestinal homogenates of rats [2]. Camostat mesilate (2 mM) inhibits MCP-1 and TNF- production in activated rat monocytes. Camostat mesilate (2 mM) inhibits proliferation and MCP-1 production of cultured rat PSCs. Camostat mesilate (1 mg/g) prevents pancreatic atrophy and improves pancreatic exocrine function of rat chronic pancreatitis induced by DBTC. Camostat mesilate (1 mg/g) inhibits chronic inflammation and pancreatic fibrosis induced by DBTC. Camostat mesilate (1 mg/g) inhibits the development of pancreatic fibrosis and PSCs activation in the pancreas induced by DBTC. Camostat mesilate (1 mg/g) suppresses monocytes infiltration and inhibits MCP-1 expression both in serum and in pancreatic tissue [3].

References:

- [1]. Okuno, M., et al., Prevention of rat hepatic fibrosis by the protease inhibitor, camostat mesilate, via reduced generation of active TGF-beta. *Gastroenterology*, 2001. 120(7): p. 1784-800.
- [2]. Yamamoto, A., et al., Effects of various protease inhibitors on the intestinal absorption and degradation of insulin in rats. *Pharm Res*, 1994. 11(10): p. 1496-500.
- [3]. Gibo, J., et al., Camostat mesilate attenuates pancreatic fibrosis via inhibition of monocytes and pancreatic stellate cells activity. *Lab Invest*, 2005. 85(1): p. 75-89.

CAIndexNames:

Benzeneacetic acid, 4-[[4-[(aminoiminomethyl)amino]benzoyl]oxy]-, 2-(dimethylamino)-2-oxoethyl ester, methanesulfonate (1:1)

SMILES:

O=C(OCC(N(C)C)=O)CC1=CC=C(OC(C2=CC=C(NC(N)=N)C=C2)=O)C=C1.CS(=O)(O)=O

Caution: Product has not been fully validated for medical applications. For research use only.

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