

Camostat mesylate

Catalogue Number : 5972981

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: camostate-mesilate, FOY 305, foypan

Chemical Name: [4-[2-[2-(dimethylamino)-2-oxoethoxy]-2-oxoethyl]phenyl] 4-(diaminomethylideneamino)benzoate; methanesulfonic acid

Molecular Formula: $C_{20}H_{22}N_4O_5 \cdot CH_3SO_3$

Molecular Weight: 494.5

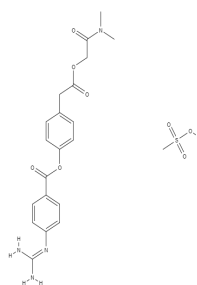
CAS Number: 59721-29-8

Purity: 98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

Camostat mesylate is a glycosylphosphatidylinositol-anchored serine protease inhibitor. It inhibits airway epithelial sodium channel function and it is reported to inhibit the generation of TGF-beta. It is currently being researched as a potential treatment for COVID-19.

Preparation & Storage

Soluble in organic solvents such as ethanol and DMSO. It is soluble in DMSO up to 25mg/ml.

References

- Coote, K., Atherton-Watson, H. C., Sugar, R., Young, A., MacKenzie-Beevor, A., Gosling, M., ... Sabater, J. R. (2009). Camostat attenuates airway epithelial sodium channel function in vivo through the inhibition of a channel-activating protease. *Journal of Pharmacology and Experimental Therapeutics*, 329(2), 764-774.
- Gibo, J., Ito, T., Kawabe, K., Hisano, T., Inoue, M., Fujimori, N., ... Nawata, H. (2005). Camostat mesilate attenuates pancreatic fibrosis via inhibition of monocytes and pancreatic stellate cells activity. *Laboratory investigation*, 85(1), 75-89.
- Yang, N., Shen, H. M. (2020). Targeting the Endocytic Pathway and Autophagy Process as a Novel Therapeutic Strategy in COVID-19. *Int J Biol Sci*, 16(10), 1724-1731.