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DATASHEET

Camostat mesylate

Product overview

Name	Camostat mesylate
Cat No	HB3595
Biological action	Inhibitor
Purity	>98%
Description	Serine protease inhibitor. Inhibits TMPRSS2 and partially blocks SARS-Cov2 entry in vitro.

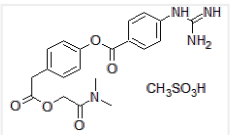
Biological Data

Biological description	Serine protease inhibitor. Orally active. Show various biological actions including antiviral, anticancer and suppresses pancreatitis-induced pain in rats. Inhibits the transmembrane protease TMPRSS2 and partially blocks entry of SARS-Cov-2 into lung cells in vitro.

Solubility & Handling

Storage instructions	Room temperature (desiccate)
Solubility overview	Soluble in water (100mM) and in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	4-[[4-[(Aminoiminomethyl)amino]benzoyl]oxy]benzeneacetic acid 2-(dimethylamino)-2-oxoethyl ester methanesulfonate
Molecular Weight	494.52
Chemical structure	
Molecular Formula	$C_{20}H_{22}N_4O_5.CH_3SO_3H$
CAS Number	59721-29-8
PubChem identifier	43071
SMILES	O=C(C2=CC=C(NC(N)=N)C=C2)OC1=CC=C(CC(OCC(N(C)C)=O)=O)C=C1.CS(=O)(O)=O
InChi	InChI=1S/C20H22N4O5.CH4O3S/c1-24(2)17(25)12-28-18(26)11-13-3-9-16(10-4-13)29-19(27)14-5-7-15(8-6-14)23-20(21)22;1-5(2,3)4/h3-10H,11-12H2,1-2H3,(H4,21,22,23);1H3,(H,2,3,4)
InChiKey	FSEKIHNIDBATFG-UHFFFAOYSA-N
MDL number	MFCD00941410

References

SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor

Hoffmann et al (2020) Cell. 181(2)
PubMedID 32142651

The proteinase inhibitor camostat mesilate suppresses pancreatic pain in rodent

Ishikura et al (2007) Life Sci. 80(21)
PubMedID 17433371

Camostat mesilate inhibits prostasin activity and reduces blood pressure and renal injury in salt-sensitive hypertension

Maekawa et al (2009) J Hypertens. 27(1)
PubMedID 19145783