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Data Sheet

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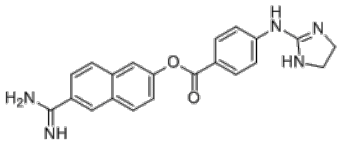
Product Name	:	Sepimostat
Cat. No.	:	PC-20173
CAS No.	:	103926-64-3
Molecular Formula	:	$C_{21}H_{19}N_5O_2$
Molecular Weight	:	373.42
Target	:	Complement System
Solubility	:	10 mM in DMSO



Biological Activity

Sepimostat (FUT-187) is a potent **multi-protease** inhibitor with IC50 of 0.097 uM for trypsin, 0.029 uM for pancreatic kallikrein, 0.61 uM for plasma kallikrein, 0.57uM for plasmin, 2.5 uM for thrombin, 20.4 uM for factor Xa and 6.4 uM for C1r.
Sepimostat (FUT-187) acts as a noncompetitive inhibitor for factor XIIa and an uncompetitive inhibitor for C1s with Ki value of 0.021 and 0.18 uM, respectively.
Sepimostat (FUT-187) inhibits the kinin formation by glandular kallikrein in the rat plasma with IC50 of 0.024 uM.
Sepimostat (FUT-187) also inhibits the complement-mediated hemolyses in the classical and alternative pathways with IC50 of 0.17 and 3.5 uM, respectively.
Sepimostat (FUT-187) is a potent and selective inhibitor of trypsin-like serine proteases, and its inhibitory activities are stronger than those of camostat on glandular kallikrein, factor XIIa and C1s in complement pathway.

References

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