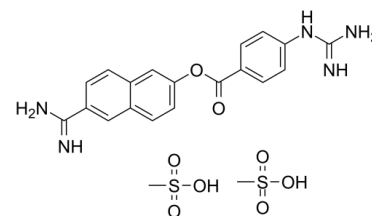


Data Sheet

Product Name:	Nafamostat (mesylate)
Cat. No.:	CS-2083
CAS No.:	82956-11-4
Molecular Formula:	C ₂₁ H ₂₅ N ₅ O ₈ S ₂
Molecular Weight:	539.58
Target:	Apoptosis; Ser/Thr Protease
Pathway:	Apoptosis; Metabolic Enzyme/Protease
Solubility:	DMSO : 50 mg/mL (92.66 mM; Need ultrasonic); H ₂ O : 33.33 mg/mL (61.77 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Nafamostat mesylate, a synthetic serine protease inhibitor, is an anticoagulant. Nafamostat mesylate suppresses T cell auto-reactivity by decreasing granzyme activity and CTL cytotoxicity^{[1][2][3]}. IC₅₀ & Target: Serine Protease^{[1][2]}. Granzyme^[3].

References:

- [1]. Ikehara S, et al. Effect of FUT-175, a new synthetic protease inhibitor, on the development of lupus nephritis in (NZB x NZW) F1 mice. Immunology. 1985 Aug;55(4):595-600.
- [2]. Pak K, et al. Effectiveness of FUT-175, protease inhibitor, as an anticoagulant to hemodialysis. Hinyokika Kyo. 1988 Jun;34(6):1077-81.
- [3]. Homma S, et al. Nafamostat mesilate, a serine protease inhibitor, suppresses interferon-gamma-induced up-regulation of programmed cell death ligand 1 in human cancer cells. Int Immunopharmacol. 2018 Jan;54:39-45.

CAIndexNames:

Benzoic acid, 4-[(aminoiminomethyl)amino]-, 6-(aminoiminomethyl)-2-naphthalenyl ester, methanesulfonate (1:2)

SMILES:

CS(=O)(O)=O.O=C(OC1=CC=C2C=C(C(N)=N)C=CC2=C1)C3=CC=C(NC(N)=N)C=C3.CS(=O)(O)=O

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

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