Store at RT

Nafamostat Mesylate



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10 mg

For Research Use Only. Not for Use in Diagnostic Procedures.

Background Nafamostat Mesylate, also known as FUT-175, is a potent and reversible, broad-spectrum serine

protease inhibitor of trypsin (K_i = 15 nM), tryptase (K_i = 95.3 pM), and other additional proteases (1). This small compound has been identified as a key player in the disruption of the inflammatory response via inhibition of the complement system and coagulation cascade (2). Its wide range of inhibitory activity displays anti-cancer and anti-viral properties and has shown effective inhibition of MERS-CoV by preventing membrane fusion, making it a promising therapeutic candidate against the

2019-nCoV infection (EC₅₀ = 22.50 μ M) (3,4).

Molecular Formula C₁₉H₁₇N₅O₂ • 2CH₃SO₃H

Molecular Weight 539.6 g/mol

Purity >98%

CAS 82956-11-4

Solubility Soluble in DMSO at 50 mg/ml or water at 50 mg/ml.

Storage Store lyophilized at room temperature, desiccated. In lyophilized form, the chemical is stable for 24

months. Once in solution, store at 4°C and use within 1 month or at -80°C and use within 6 months to

prevent loss of potency. Aliquot to avoid multiple freeze/thaw cycles.

Directions for UseNafamostat Mesylate is supplied as a lyophilized powder. For a 15 mM stock, reconstitute 10 mg of

powder in 1.23 ml of DMSO. Working concentrations and length of treatment can vary depending on

the desired effect.

Background References 1. Mori, S. et al. (2003) *J Pharmacol Sci* 92, 420-3.

2. Aoyama, T. et al. (1984) *Jpn J Pharmacol* 35, 203-27.

3. Chen, X. et al. (2019) Front Oncol 9, 852.

4. Wang, M. et al. (2020) Cell Res 30, 269-71.

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