
Product Data Sheet

Product Name: Nafamostat hydrochloride

Cat. No.: GC16290

Chemical Properties

Cas. No. 80251-32-7

Chemical Name 6-carbamimidoylnaphthalen-2-yl 4-guanidinobenzoate dihydrochloride

SMILES NC(C1=CC=CC=C(OC(C3=CC=C(NC(N)=N)C=C3)=O)C=C2C=C1)=N.Cl.ClFormula $C_{19}H_{19}Cl_2N_5O_2$ M.Wt 420.29

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Nafamostat hydrochloride, a synthetic serine protease inhibitor, is an anticoagulant. Nafamostat hydrochloride suppresses T cell auto-reactivity by decreasing granzyme activity and CTL cytotoxicity [1][2][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]. 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.

[3]. Pak K, et al. Effectiveness of FUT-175, protease inhibitor, as an anticoagulant to hemodialysis. Hinyokika Kyo. 1988 Jun;34(6):1077-81.

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

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