

Product Data Sheet

10mg

Nafamostat Mesylate(FUT-175)

A2586 Cat. No.:

CAS No.: 82956-11-4

Formula: C19H17N5O2·2CH4O3S

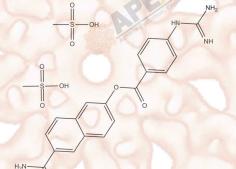
M.Wt: 539.59

Synonyms: Nafamostat Mesylate, FUT-175, Futhan

Proteases Target:

Serine Protease Pathway:

Store at -20°C Storage:



Solvent & Solubility

≥27mg/mL in DMSO, ≥54mg/mL in H2O

Mass Solvent 1mg 5mg Preparing Concentration In Vitro Stock Solutions 1 mM 1.8533 mL 9.2663 mL 18.5326 mL 5 mM 0.3707 mL 1.8533 mL 3.7065 mL 10 mM 0.1853 mL 0.9266 mL 1.8533 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Serine protease inhibitor	
IC ₅₀ & Target		
In Vitro	Cell Viability Assay	
	Cell Line:	The human pancreatic tumor cell lines PANC-1
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.
	Reacting conditions:	3 h; 160 μg/mL
	Applications:	In assessment of the NF- κB activation by ELISA, concentration of NF- κB p65

		in the nuclear extracts of PANC-1 cells in combination group was statistically
		lower than those in oxaliplatin group (p<0.0001). Like nuclear NF-κB levels,
		phosphorylated IκBa levels by Western blot analysis in combination group were
		significantly lower than those in oxaliplatin group (p=0.037). In other words,
		FUT-175 inhibits oxaliplatin-induced NF- κB activation by suppressing IκBa
	Troun Strong	phosphorylation in vitro.
	Animal experiment	
In Vivo	Animal models:	Five-week-old male nude mice
	Dosage form:	30 μg/g; thrice a week for 6 weeks; intraperitoneal injection
	Applications:	A pancreatic cancer model was established by injection of PANC-1 cells
		(5×10-6cells) in 200 μM of PBS subcutaneously into the right side of the back of
		the animals. In vivo, the tumor growth in combination group (oxaliplatin and
		nafamostat mesilate) was significantly slower than that of oxaliplatin group
		(p<0.0001). Tumor volume in combination group was significantly smaller than
	-0	that of oxaliplatin group (p=0.048).
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
	Tort Expose m	slightly differ with the theoretical value. This is caused by an experimental
		system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Gocho T, Uwagawa T, Furukawa K, et al. Combination chemotherapy of serine protease inhibitor nafamostat mesilate with oxaliplatin targeting NF-κB activation for pancreatic cancer[J]. Cancer letters, 2013, 333(1): 89-95.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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