

alpha-1 antitrypsin fragment

Chemical Properties

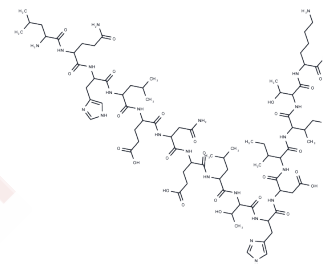
CAS No. :

Formula: C79H130N22O26

Molecular Weight: 1804.01

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Alpha-1 antitrypsin (A1AT) is known as a serum trypsin inhibitor and is a protease inhibitor belonging to the serpin superfamily. Alpha-1 antitrypsin is a single-chain glycoprotein consisting of 394 amino acids in the mature form and exhibits a number of glycoforms.
Targets(IC50)	Others
In vitro	A1AT is a major inhibitor of human serine proteases in serum, is produced mainly by the liver, but also by extrahepatic cells, including neutrophils and certain cancer cells. AAT is an acute-phase protein and its concentration rises up to 3-4-fold above normal during acute inflammation. Several types of cancer, including non-small cell lung adenocarcinoma, have been associated with increased serum levels of AAT [1][2][3].
In vivo	Moreover, not only the native, the inhibitory form of AAT but also conformationally modified, non-inhibitory forms are suggested to play a role in modulating tumor growth and invasiveness. For example, Kataoka and co-workers have shown that the C-terminal fragment of AAT can enhance the growth and invasiveness of human pancreas adenocarcinoma cells, in vivo [5].

Solubility Information

Solubility	DMSO: > 45.1 mg/mL, Heating is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5543 mL	2.7716 mL	5.5432 mL
5 mM	0.1109 mL	0.5543 mL	1.1086 mL
10 mM	0.0554 mL	0.2772 mL	0.5543 mL
50 mM	0.0111 mL	0.0554 mL	0.1109 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481