

α 1-antitrypsin protein

Basic information:

Catalog No.:	UDP9115-2	Source:	Human
Expression Host:	HEK293	Type:	Recombinant protein
Purity:	>90% as determined by SDS-PAGE		

Useful Information:

Construction:

A DNA sequence encoding the α 1-antitrypsin protein was expressed with 6xHis in C terminus.

Molecular Mass:

The recombinant human α 1-antitrypsin protein consists of 394 amino acids.

Formulation:

Liquidin PBS, pH7.4.

Biological Activity

N/A

Endotoxin:

N/A

Storage:

Recombinant proteins are provided as frozen liquid which are shipped with dry ice. Bulk packages can be provided as lyophilized powder which shipped with blue ice.

Reconstitution:

According to the application.

Description:

α 1-antitrypsin (AAT) was discovered in the mid-1950s but only came to prominence in 1963 when the association between an absent or weak protein band in the α 1 region and severe early-onset emphysema was identified. 1 Biochemical testing had shown that the α 1 band on electrophoresis represented the major source of inhibition of the serine proteinase trypsin. This finding led to the major protein constituent being referred to as an antitrypsin in the α 1 region, hence its name. The name has remained in common use, although it might be better termed α 1 proteinase inhibitor (trypsin is not its major or only cognate enzyme target) or SERPINA1 (SERine Protease INhibitor clade A member 1: it is the first member of the serpin superfamily of proteins).

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