
Recombinant Human Serpin A3 Protein

Catalog Number: 230-31020

Data Sheet / Certificate of Analysis (CoA)

Last Revised: 11/12/2024

Source

Species	Human
Accession Number	P01011
Gene Symbols	SERPINA3
Synonyms	ACT, Cell growth-inhibiting gene 24/25 protein, Alpha-1-antichymotrypsin His-Proless.
Expressed Region	His24-Ala423

Preparation

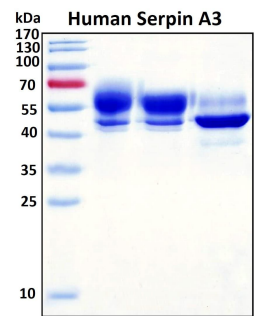
Expression System	HEK293 cells
Tag	C-terminal His-tag
Purity	>95%
Molecular Weight	Recombinant protein product has a calculated molecular mass of 45 kDa. Due to the abundant glycosylation, it migrates as approximately 55-60 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions.
Endotoxin Level	< 0.5 EU per ?g of the protein as determined by the LAL method

Specifications

Format	Liquid
Formulation	Supplied as a 0.2 µm filtered solution in 1x PBS (pH 7.4) with 1% mannitol and 5% trehalose
Concentration	Refer to the label on the vial for the specific concentration, determined by the Pierce BCA Protein Assay Kit.

SDS-PAGE Image

Figure 1. Deglycosylation analysis of purified recombinant proteins. Product was either untreated (Lane 2) or treated with deglycosylation enzymes under native (Lane 3) or denaturing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift, indicating that the untreated protein (Lane 2) was glycosylated. Lane 1, protein ladder (kDa).



Shipping

The product is shipped with ice packs. Upon arrival, immediately store it at the temperature recommended below.

Storage/Stability

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- Upon arrival, the liquid protein may be stored for 2 weeks at 4°C.
- For long term storage, it is recommended to store at -20°C or -80°C in appropriate aliquots.
- Generally, the shelf life is up to 6 months from the date of receipt at -20°C or -80°C under sterile conditions.