

Human CellExp™ SERPIN A3, human recombinant

CATALOG #:	7419-10	10 µg
ALTERNATE NAMES:	SERPINA3, ACT, AACT, GIG24, GIG25	
SOURCE:	HEK 293 cells (His 23 –Ala 423)	
PURITY:	≥ 95% by SDS-PAGE gel	
MOL. WEIGHT:	This protein is fused with polyhistidine tag at the C-terminus, has a calculated MW of 46 kDa. The predicted N-terminus is His 23. DTT-reduced Protein migrates as 55-70 kDa due to glycosylation.	
ENDOTOXIN LEVEL:	<1 EU/µg by LAL method	
FORM:	Lyophilized	

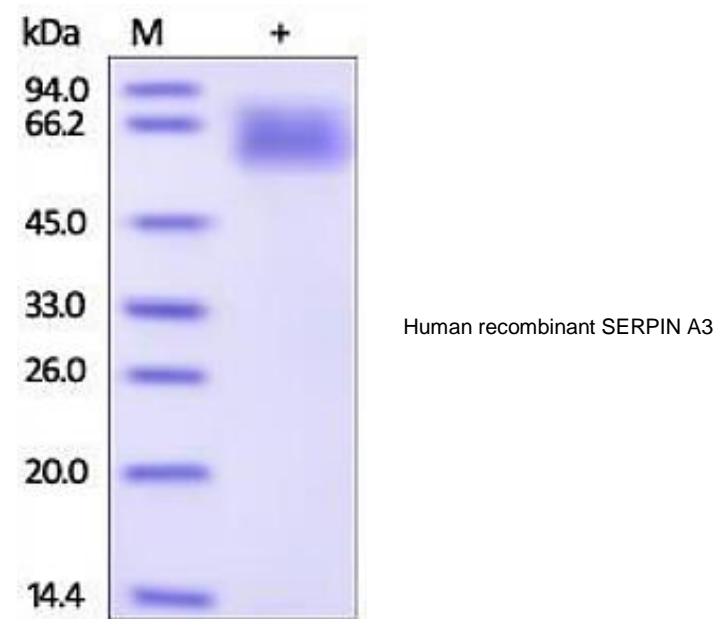
FORMULATION: Lyophilized from 0.22 µm filtered solution in 20 mM HEPES, 150 mM NaCl, pH 7.5. Normally Mannitol or Trehalose is added as protectants before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: Serpin A3 is also known as Alpha-1-antichymotrypsin (ACT or AACT), Cell growth-inhibiting gene 24/25 protein, which belongs to the serpin family. Serpin A3 can bind DNA. Although its physiological function is unclear, it can inhibit neutrophil cathepsin G and mast cell chymase, both of which can convert angiotensin-1 to the active angiotensin-2.

BIOLOGICAL ACTIVITY: Measured by its ability to inhibit chymotrypsin cleavage of a fluorogenic peptide substrate MCA-RPKPVE-Nval-WRK (Dnp)-NH₂. The IC₅₀ value is <6

**RELATED PRODUCTS:**

- Human CellExp™ SERPIN F1, human recombinant, (Cat. No. 7418-10, -50)
- Human CellExp™ SERPINA1 /A1AT, human recombinant, (Cat. No. 7235-10)
- Human CellExp™ SERPINA8, human recombinant, (Cat. No. 7236-10)
- Serpin E1/PAI-1, human recombinant, (Cat. No. 4731-10, -100, -1000)
- Serpin A6 Antibody (Cat. No. 3906-100)
- Serpin A6 Blocking Peptide (Cat. No. 3906BP-100)
- Neuroserpin, human recombinant, (Cat. No. 7181-10, -50)

FOR RESEARCH USE ONLY! Not to be used in humans.