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# **SERPINA3 Protein (His tag)**



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Quantity:	100 μg
Target:	SERPINA3
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SERPINA3 protein is labelled with His tag.

#### **Product Details**

Purpose:	Recombinant Human SerpinA3/AACT Protein (His Tag)(Active)
Sequence:	Met 1-Ala 423
Characteristics:	A DNA sequence encoding the human SERPINA3 (NP_001076.2) (Met 1-Ala 423) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2 (Anaspec, Catalog# 27114). The IC50 value is < 5 nM.

## Target Details

## **Target Details**

Alternative Name:	SerpinA3/AACT (SERPINA3 Products)		
Background:	Background: SerpinA3, also known as Alpha 1-antichymotrypsin (AACT), is a plasma alpha		
	globulin glycoprotein, and is a member of serpin superfamily of the serine protease inhibitors		
	consisting of at least 35 members. SerpinA3 has been demonstrated to inhibit the activity of		
	certain serine proteases, such as cathepsin G found in neutrophils, and chymases present in		
	mast cells, by inducing a major conformational rearrangement, and thus protects some tissues		
	from damage caused by proteolytic enzymes. This enzyme is produced primarily in the liver,		
	and is identified as an acute-phase inflammatory protein. SerpinA3 deficiency has been		
	associated with liver disease, and mutations of this gene have been observed in patients with		
	Parkinson disease and chronic obstructive pulmonary disease. In addition, ACT gene		
	polymorphism has been implicated with Alzheimer's disease (AD), cerebral amyloid angiopathy		
	(CAA), as well as stroke, since SerpinA3 is a major constituent of the plaques in AD and an		
	inhibitor of amyloid beta peptide degradation.		
	Synonym: Alpha-1-Antichymotrypsin, ACT, Cell Growth-Inhibiting Gene 24/25 Protein, Serpin A3		
	SERPINA3, AACT,GIG24,GIG25,MGC88254,SERPINA3		
Molecular Weight:	46.5 kDa		
NCBI Accession:	NP_001076		
Application Details			
Restrictions:	For Research Use only		
Handling			
Format:	Lyophilized		
Reconstitution:	Please refer to the printed manual for detailed information.		
Buffer:	Lyophilized from sterile 25 mM HEPES, 0.15M NaCl, pH 7.8		
Storage:	4 °C,-20 °C,-80 °C		
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.		
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.		