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Datasheet for ABIN4370407 SERPINA1 Protein (AA 25-418) (His tag)



Overview

Quantity:	50 µg
Target:	SERPINA1
Protein Characteristics:	AA 25-418
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SERPINA1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Serpin A1/alpha-1-Antitrypsin (C-6His)	
Sequence:	EDPQGDAAQK TDTSHHDQDH PTFNKITPNL AEFAFSLYRQ LAHQSNSTNI FFSPVSIATA	
	FAMLSLGTKA DTHDEILEGL NFNLTEIPEA QIHEGFQELL RTLNQPDSQL QLTTGNGLFL	
	SEGLKLVDKF LEDVKKLYHS EAFTVNFGDT EEAKKQINDY VEKGTQGKIV DLVKELDRDT	
	VFALVNYIFF KGKWERPFEV KDTEEEDFHV DQVTTVKVPM MKRLGMFNIQ HCKKLSSWVL	
	LMKYLGNATA IFFLPDEGKL QHLENELTHD IITKFLENED RRSASLHLPK LSITGTYDLK	
	SVLGQLGITK VFSNGADLSG VTEEAPLKLS KAVHKAVLTI DEKGTEAAGA MFLEAIPMSI	
	PPEVKFNKPF VFLMIDQNTK SPLFMGKVVN PTQKVDHHHH HH	
Characteristics:	Recombinant Human Serpin A1 produced by transfected human cells is a secreted protein with	
	sequence (Glu25-Lys418) of Human SERPIN A1 fused with a polyhistidine tag at the C-	
	terminus.	
Purity:	> 95 % as determined by reducing SDS-PAGE.	

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Product Details		
Sterility:	0.2 µm filtered	
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test	
Target Details		
Target:	SERPINA1	
Alternative Name:	alpha-1-antitrypsin (SERPINA1 Products)	
Sub Type:	Fusionprotein	
Background:	 Serpin A1 is a prototype member of the Serpin superfamily of the serine protease inhibitors. As one of the most abundant proteinase inhibitors in the circulation, it is synthesized in hepatocytes, and to a lesser extent, in macrophages as well as intestinal epithelial cell lines and secreted as the abundant proteinase inhibitor in the circulation whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. Point mutations in the native SerpinA1 variants result in Serpin A1 deficiency, and consequently lead to several clinical complications such as pulmonary emphysema, juvenile hepatitis, cirrhosis, and hepatocellular carcinoma. For example, the Z variants (Glu342 to Lys) forms intracellular inclusion bodies, is not secreted, and leads to a severe SerpinA1 deficiency. Accordingly, Serpin A1 deficiency in circulation is associated with emphysema or liver disease. Alternative Names: Alpha-1-Antitrypsin, Alpha-1 Protease Inhibitor, Alpha-1-Antiproteinase, Serpin A1, SERPINA1, AAT, PI 45.35 kDa 	
UniProt:	P01009	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.	
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 2 mM CaCl2, pH 7.5.	

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Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.	
Storage:	4 °C/-20 °C/-80 °C	
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Expiry Date:	3 months	