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Datasheet for ABIN7534480
SERPINA1 Protein (His tag)

Overview

Quantity:	100 µg
Target:	SERPINA1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SERPINA1 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Serpin A1/Alpha-1-antitrypsin Protein
Sequence:	EDPQGDAFAQK TDTSHHDQDH PTFNKITPNL AEFASLYRQ LAHQSNSTNI FFSPVSIATA FAMLSLGTKA DTHDEILEGL NFNLTEIPEA QIHGEGFQELL RTLNQPDSQL QLTTGNLFL SEGLKLVDFK LEDVKKLYHS EAFTVNFVGDV EEAKKQINDY VEKGTQGKIV DLVKELDRDT VFALVNYIFF KGKWERPFV KDTEEDFHV DQVTTVKVPM MKRLGMFNIQ HCKKLSSWVL LMKYLGNATA IFFLPDEGKL QHLENELTHD IITKFLNED RRSASLHLPK LSITGTYDLK SVLGLGKITK VFSNGADLSG VTEEAPLKLK KAVHKAVLTI DEKGTEAAGA MFLEAIPMSI PPEVKFNKPF VFLMIEQNTK SPLFMGKVVN PTQK
Specificity:	Glu25-Lys418
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 1.0 EU/µg of the protein by LAL method.

Product Details

Biological Activity Comment: Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH₂. The IC₅₀ value is approximately <0.4 nM.

Target Details

Target:	SERPINA1
Alternative Name:	Serpin A1/Alpha-1-antitrypsin (SERPINA1 Products)
Background:	A1A, A1AT, AAT, PI, PI1, PRO2275, alpha1AT, SERPINA1, A1AT, AAT, PI, PI1, PRO2275, alpha1AT
Gene ID:	5265
UniProt:	P01009

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.