

Active Recombinant Full Length Human SERPINA1 Protein, C-Flag-tagged

Cat. No. SERPINA1-264HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SERPINA1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a serine protease inhibitor belonging to the serpin superfamily whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. This protein is produced in the liver, the bone marrow, by lymphocytic and monocytic cells in lymphoid tissue, and by the Paneth cells of the gut. Defects in this gene are associated with chronic obstructive pulmonary disease, emphysema, and chronic liver disease. Several transcript variants encoding the same protein have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	In vivo treatment
Molecular Mass	44.3 kDa
AA Sequence	MPSSVSWGILLLAGLCCLVPVSLAEDPQGDAQKTDTSHHQDQDHPTFNKITPNLAEF AFSLYRQLAHQSN STNIFFSPVSIATAFAMLSLGTKADTHDEILEGLNFNLTEIPEAQI HEGFQELLRTL NQPDSQLQLTTGN GLFLSEGLKLVDKFLEDVKKLYHSEAFTVNFG

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DTEEAKKQINDYVEKGTQGKIVDLVKELDRDTV FALVN YIFFKGKWERPFEVKDTEE
EDFHVDQVTTVKVPMMLGMLFNIQHCKKLSSWVLLMKYLG NATAIFFLPD EGKLQ
HLENELTHDIITKFLNEDRRSASLHLPKLSITGTDLKSVLGQLGITKVFSNGADLSG
VTEEAP LKLSKAVHKAVLTIDEKGTEAAGAMFLEAIPMSIPPEVKFNKPFVFLMIDQN
TKSPLFMGKVVNPTQKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways	Complement and coagulation cascades
Full Length	Full L.

GENE INFORMATION

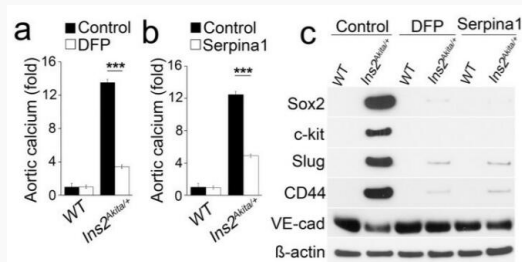
Gene Name	SERPINA1 serpin family A member 1 [Homo sapiens (human)]
Official Symbol	SERPINA1
Synonyms	PI; A1A; AAT; PI1; A1AT; nNIF; PRO2275; alpha1AT

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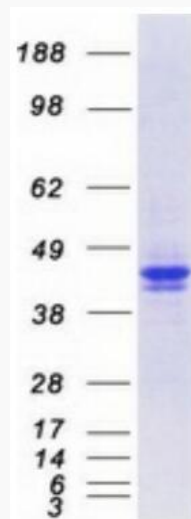
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Gene ID	5265
mRNA Refseq	NM_000295.5
Protein Refseq	NP_000286.3
MIM	107400
UniProt ID	P01009



Total calcium level of aortas from wild-type (WT) or Ins2Akita/+ mice after treatment of (a) diisopropylfluorophosphate (DFP) or (b) serpina1. *** p 0.001. (c) Expression of stem-cell markers in isolated aortic endothelial cells of wild-type or Ins2Akita/+ mice after treatment with diisopropylfluorophosphate (DFP) or serpina1, as determined by immunoblotting.



Coomassie blue staining of purified SERPINA1 protein.

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