

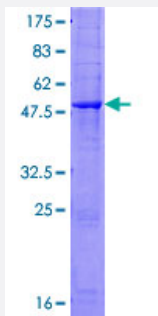
Full-Length

SERPINC1 (Human) Recombinant Protein (P01)

Catalog # H00000462-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human SERPINC1 full-length ORF (AAH22309.1, 1 a.a. - 259 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MYSNVIGTVTSGKRKVVLLSLLIGFWDCVTCHGSPVDICTAEPRDIPMNPNCIYRSPEKKATEDE
GSEQKIPEATNRRVWELSKANSRFATTFYQHLADSKNDNDNIFLSPLSISTAFAMTKLGACNDTLQ
QLMEVFKFDTISEKTSDQIHFFFAKLNCRLYRKANKSSKLVSANRLFGDKSLTFNDLYVSDAFHKA
FLEVNEEGSEAAASTAVVIAGRSLNPNRVTFKANRPFLVFIREVPLNTIIFMGRVANPCVK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

54.23

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SERPINC1

Entrez GeneID [462](#)

GeneBank Accession# [BC022309](#)

Protein Accession# [AAH22309.1](#)

Gene Name SERPINC1

Gene Alias AT3, ATIII, MGC22579

Gene Description serpin peptidase inhibitor, clade C (antithrombin), member 1

Omim ID [107300](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a plasma protease inhibitor and a member of the serpin superfamily. This protein inhibits thrombin as well as other activated serine proteases of the coagulation system, and it regulates the blood coagulation cascade. The protein includes two functional domains: the heparin binding-domain at the N-terminus of the mature protein, and the reactive site domain at the C-terminus. The inhibitory activity is enhanced by the presence of heparin. More than 120 mutations have been identified for this gene, many of which are known to cause antithrombin-III deficiency. [provided by RefSeq]

Other Designations OTTHUMP00000035393|antithrombin (aa 375-432)|antithrombin III|coding sequence signal peptide antithrombin part 1|serine (or cysteine) proteinase inhibitor, clade C (antithrombin), member 1|signal peptide antithrombin part 1

Pathway

- [Complement and coagulation cascades](#)

Disease

- [Abortion](#)
- [Alzheimer disease](#)
- [Antithrombin III Deficiency](#)
- [Birth Weight](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Coronary Thrombosis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)

- [Thrombophilia](#)
- [Venous Thrombosis](#)