

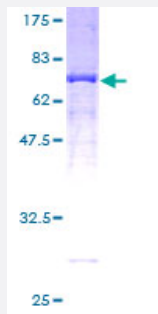
Full-Length

SERPINA3 (Human) Recombinant Protein (P01)

Catalog # H00000012-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human SERPINA3 full-length ORF (AAH03559, 25 a.a. - 423 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

PNSPLDEENLTQENQDRGTHVDLGLASANVDFAFSLYKQLVLKAPDKNVIFSPLSISTALAFSLG
AHNTTLTEILKGLKFNLTTETSEAEIHQSFGHLLRTLQSSDELQLSMGNAMFVKEQLSLDRFTED
AKRLYGSEAFATDFQDSAAAKKLINDYVKNNGTRGKITDLKDLSQTMMVLVNYIFFKAKWEMPFD
PQDTHQSRFYLSKKKWVMVPMMSLHHLTIPYFRDEELSCVVELKYTGNASALFILPDQDKMEEV
EAMLLPETLKRWRDSLEFREIGELYLPKFSISRDNLDILLQLGIEEAFTSKADLSGITGARNLAVS
QVVKAVLDVFEEGTEASAATAVKITLLSALVETRTVRFNRPFLLMIVPTDTQNIFFMSKVTNPKQA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

69.63

Interspecies Antigen Sequence

Mouse (58); Rat (62)

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 — SERPINA3

Entrez GeneID[12](#)**GeneBank Accession#**[BC003559](#)**Protein Accession#**[AAH03559](#)**Gene Name**

SERPINA3

Gene Alias

AACT, ACT, GIG24, GIG25, MGC88254

Gene Description

serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3

Omim ID[107280](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a plasma protease inhibitor and member of the serine protease inhibitor class. Polymorphisms in this protein appear to be tissue specific and influence protease targeting. Variations in this protein's sequence have been implicated in Alzheimer's disease, and deficiency of this protein has been associated with liver disease. Mutations have been identified in patients with Parkinson disease and chronic obstructive pulmonary disease. [provided by RefSeq]

Other Designations

alpha-1-antichymotrypsin|antichymotrypsin|growth-inhibiting protein 24|growth-inhibiting protein 25|serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3|serine (or cysteine) proteinase inhibitor, clade A, memb

Disease

- [Acute Disease](#)
- [alpha 1-Antitrypsin Deficiency](#)
- [Alpha-1-antitrypsin deficiency](#)
- [Alzheimer disease](#)
- [Aneurysm](#)
- [Asthma](#)
- [Brain Ischemia](#)
- [Bronchial Hyperreactivity](#)
- [Cardiovascular Diseases](#)
- [Cerebral Amyloid Angiopathy](#)
- [Cerebral Hemorrhage](#)
- [Cerebrovascular Accident](#)
- [Chronic Disease](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Cystic fibrosis](#)
- [Dementia](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Encephalitis](#)
- [Genetic Predisposition to Disease](#)
- [Hemorrhage](#)

- [Hypercholesterolemia](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Inflammation](#)
- [Intracranial Aneurysm](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Macular Degeneration](#)
- [Mental Status Schedule](#)
- [Metabolic Syndrome X](#)
- [Multiple System Atrophy](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Myositis](#)
- [Neoplasms](#)
- [Neuropsychological Tests](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Pancreatitis](#)
- [Parkinson disease](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Pulmonary Emphysema](#)
- [Stroke](#)

- [Subarachnoid Hemorrhage](#)
- [Vasculitis](#)
- [Wegener Granulomatosis](#)