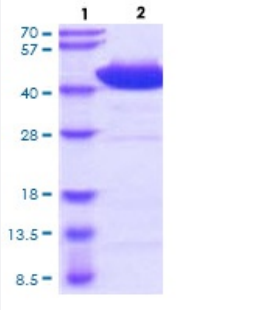
Bioactive Full-Length

SERPINA5 (Human) Recombinant Protein

Catalog # P8042 Size 100 ug

Applications



Specification

Product Description	Human SERPINA5 (P05154, 20 a.a. - 237 a.a.) full length recombinant protein His tag expressed in *Escherichia coli*.
Sequence	HRHHPREMKKRVEDLHVGATVAPSSRRDFTFDLYRALASAAPSQSIFFSPVSISMSLAMLSLGAG SSTKMQILEGLGLNLQKSSEKELHRGFQQLLQELNQPRDGFQLSLGNALFTDLVVDLQDTFVSAM KTLYLADTFPTNFRDSAGAMKQINDYVAKQTKGKIVDLLKNLDSNAVVIMVNYIFFKAKWETSFNHK GTQEQDFYVTSETVVRVPMMSREDQYHYLLDRNLSCRVVGVPYQGNATALFILPSEGKMQQVEN GLSEKTLRKWLKMFKKRQLELYLPKFSIEGSYQLEKVLPSLGISNVFTSHADLSGISNHSNIQVSEM VHKAVVEVDESGTRAAAATGTIFTFRSARLNSQRLVFNRPFLMFIVDNNILFLGKVNRP
Host	Escherichia coli
Theoretical MW (kDa)	45.9
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 90% by SDS-PAGE
Activity	IC50 is < 2 nM, measured by the ability to inhibit Thrombin cleavage of substrate Boc-VPR-AMC.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.

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Storage Buffer	In 20mM MES buffer pH 6.0 (10% glycerol, 150 mM NaCl)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — SERPINA5

Entrez GeneID	5104
Protein Accession#	P05154
Gene Name	SERPINA5
Gene Alias	PAI3, PCI, PLANH3, PROCI
Gene Description	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5
Omim ID	601841
Gene Ontology	Hyperlink
Gene Summary	serpin peptidase inhibitor
Other Designations	plasminogen activator inhibitor III|plasminogen activator inhibitor-3|serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5

Pathway

- Complement and coagulation cascades

Disease

- alpha 1-Antitrypsin Deficiency
- Cardiovascular Diseases

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- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Oligospermia
- Wegener Granulomatosis

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