

Bioactive

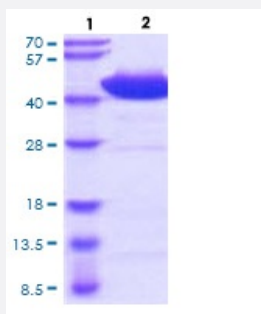
Full-Length

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

HRHHPREMKKRVEDLHV GATVAPSSRRDFTFDLYRALASAAPSQSIFFSPVSISMSLAML SLGAG
SSTKMQILEGLGLNLQKSSEKELHRGFQQLLQELNQPRDGFQLSLGNALFTDLVVDLQDTFVSAM
KTLYLADTFPTNFRDSAGAMKQINDYVAKQTKGKIVDLLKNLDSNAVVMVNYIFFKAKWETSFN HK
GTQE QDFYVTSETVVRVPMMSREDQYHYLLDRNLSCRVVGPYQGNATALFILPSEGKMQQVEN
GLSEKTLRKWLKMFKKRQLELYLPKFSIEGSYQLEKVLPSLGISNVFTSHADLSGISNHSNIQVSEM
VHKAVVEVDESGTRAAAATGTIFTFRSARLNSQRLVFNRPFLLMFIVDNNILFLGKVNRP

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.

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, PROC1

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](#)

- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Oligospermia](#)
- [Wegener Granulomatosis](#)