

# Recombinant Human SERPINA12 Protein

**Cat. No.** SERPINA12-16H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human Vaspin (rhVaspin) produced in E. coli is a single non-glycosylated polypeptide chain containing 394 amino acids. rhVaspin has a molecular mass of 45.1kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 394 amino acids                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Predicted to enable serine-type endopeptidase inhibitor activity. Predicted to be involved in negative regulation of endopeptidase activity. Predicted to act upstream of or within negative regulation of gluconeogenesis; positive regulation of signal transduction; and regulation of lipid metabolic process. Predicted to be located in plasma membrane. Predicted to be active in extracellular space. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Bio-activity</b>     | Bioassay data are not available.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 45.1 kDa, observed by reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | LKPSFSPRNYKALSEVQGWKQRMAAKELARQNMDLGFKLLKKLAFYNPGRNIFLSP<br>LSISTAFSMLCLGAQDSTLDEIKQGFNFRKMPEKDLHEGFHYIIHELTQKTQDLKLSIG                                                                                                                                                                                                                                                                                       |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NTLFIDQRLQPQRKFLEDAKNFYSAETILTQNFQNLMAQKQINDFISQKTHGKINNIE  
 NIDPGTVMLLANYIFFRARWKHEFDPNVTKEEDFFLEKNSSVKVPMMFRSGIYQVGY  
 DDKLSCTILEIPYQKNITAIFILPDEGKLKHLEKGLQVDTFSRWKTLLSRRVVDVSVPR  
 LHMTGTFDLKKTLSTYIGVSKIFEEHGDLTKIAPHRSLKVGEAVHKAELKMDERGTGA  
 AGTGAQTLPMETPLVVKIDKPYLLLIYSEKIPSVLFLGKIVNPIGK

**Endotoxin** < 0.2 EU/μg, determined by LAL method.

**Purity** > 95% by SDS-PAGE and HPLC analyses.

**Storage** Lyophilized recombinant human Vaspin (rhVaspin) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhVaspin remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.

**Storage Buffer** Lyophilized after extensive dialysis against PBS.

**Reconstitution** Reconstituted in ddH<sub>2</sub>O at 100 μg/mL.

## GENE INFORMATION

**Gene Name** SERPINA12 serpin family A member 12 [ Homo sapiens (human) ]

**Official Symbol** SERPINA12

**Synonyms** SERPINA12; serpin family A member 12; serpin A12; serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 12; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 12; vaspin; visceral adipose tissue-derived serine protease inhibitor; visceral adipose-specific SERPIN

**Gene ID** 145264

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|-----------------------|-----------|
| <b>mRNA Refseq</b>    | NM_173850 |
| <b>Protein Refseq</b> | NP_776249 |
| <b>MIM</b>            | 617471    |
| <b>UniProt ID</b>     | Q8IW75    |

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