

## 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>	LKPSFSPRNYKALSEVQGWKQRMAAKELARQNMDLGFKLLKCLAFYNPGRNIFLSP LSISTAFSMLCLGAQDSTLDEIKQGFNFRKMPEKDLHEGFHYIIHELTKTKQDLKLSIG

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NTLFIDQRLQPQRKFLEDAKNFYSAETILTQNFQNLQLEMAQKQINDFISQKTHGKINNLIE  
 NIDPGTVMLLANIYFFRARWKHEFDPNVTKEEDFFLEKNSSVKVPMMFRSGIYQVGY  
 DDKLSCTILEIPYQKNITAIFILPDEGKLGKLEKGLQVDTFSRWKTLLSRRVVDVSVPR  
 LHMTGTDFDLKKTLSYIGVSKIFEEHGDLTKIAPHRSLKVGAVHKAELKMDERGTGA  
 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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mRNA Refseq	NM_173850
Protein Refseq	NP_776249
MIM	617471
UniProt ID	Q8IW75

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