

Recombinant Human SERPINA12 Protein

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	394 amino acids
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Bioassay data are not available.
Molecular Mass	45.1 kDa, observed by reducing SDS-PAGE.
AA Sequence	LKPSFSPRNYKALSEVQGWKQRMAAKELARQNMDLGFKLLKKLAFYNPGRNIFLSP LSISTAFSMLCLGAQDSTLDEIKQGFNFRKMPEKDLHEGFHYIIHELTQKTQDLKLSIG

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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 ddH₂O 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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