

Active Recombinant Human SERPINB5 protein

Cat. No. SERPINB5-193H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINB5 was expressed in E. coli.
Species	Human
Source	E.coli
Description	Mammary serine protease inhibitor (Maspin) is a non-inhibitory tumor suppressor serpin that is encoded by the SERPINB5 gene. Playing an important role in embryonic development in cell adhesion, Maspin has the ability to suppress the growth, invasion, and metastasis of breast and lung tumors. However, Maspin does not exhibit any serine protease inhibitor activity since it does not undergo the conformational transition from stressed to relaxed found in typical serpins. It is expressed in normal breast and prostatic epithelial cells, but downregulated in most breast carcinoma.
Bio-activity	The ED (50) was determined by the dose-dependent proliferation of MDA-MB-468 cells and was found to be <0.05ng/mL.
Molecular Mass	42.3 kDa
Endotoxin	<1.0 EU/μg of recombinant protein as determined by the LAL method.
Purity	95%
Applications	Cell Assay

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Storage

The lyophilized protein is stable for at least one year from date of receipt at -70 centigrade. Upon reconstitution, this cytokine can be stored in working aliquots at 2 centigrade- 8 centigrade for one month, or at -20 centigrade for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

GENE INFORMATION
Gene Name

SERPINB5 serpin peptidase inhibitor, clade B (ovalbumin), member 5 [Homo sapiens]

Official Symbol

SERPINB5

Synonyms

SERPINB5; serpin peptidase inhibitor, clade B (ovalbumin), member 5; PI5, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 5; serpin B5; maspin; protease inhibitor 5 (maspin); PI-5; peptidase inhibitor 5; serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 5; PI5;

Gene ID

5268

mRNA Refseq

NM_002639

Protein Refseq

NP_002630

MIM

154790

UniProt ID

P36952

Chromosome Location

18q21.3

Pathway

ATF-2 transcription factor network, organism-specific biosystem; Direct p53 effectors,

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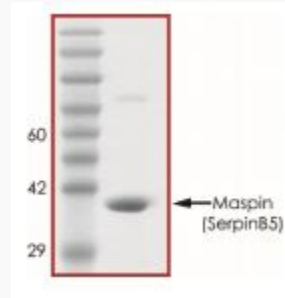
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organism-specific biosystem; p53 signaling pathway, organism-specific biosystem;
p53 signaling pathway, conserved biosystem;

Function

protein binding; serine-type endopeptidase inhibitor activity;



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