

## Recombinant Human serpin peptidase inhibitor, clade B (ovalbumin), member 8, His-tagged

Cat. No. SERPINB8-686H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	SERPINB8, 1-374aa Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-374 a.a.
<b>Description</b>	<p>The superfamily of high molecular weight serine proteinase inhibitors (serpins) regulate a diverse set of intracellular and extracellular processes such as complement activation, fibrinolysis, coagulation, cellular differentiation, tumor suppression, apoptosis, and cell migration. SERPINB8 is a member of the ov-serpin subfamily, which, relative to the archetypal serpin PI1, is characterized by a high degree of homology to chicken ovalbumin, lack of N- and C-terminal extensions, absence of a signal peptide, and a serine rather than an asparagine residue at the penultimate position. Recombinant human SERPINB8 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT
<b>Molecular Mass</b>	45.2 kDa (397aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMDDLCEA NGTFAISLFK ILGEEDNSRN

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VFFSPMSISS ALAMVFMGAK GSTAAQMSQA LCLYKDGDIH RGFQSLLESEV  
 NRTGTQYLLR TANRLFGEKT CDFLPDFKEY CQKFYQAELE ELSFAEDTEE  
 CRKHINDWVA EKTEGKISEV LDAGTVDPLT KLVLVNAIYF KGKWNEQFDR  
 KYTRGMLFKT NEEKKTQMM FKEAKFKMGY ADEVHTQVLE LPYVEEELSM  
 VILLPDDNTD LAVVEKALTY EKFKAWTNSE KLTKSKVQVF LPRLKLEESY  
 DLEPFLRRLG MIDAFDEAKA DFSGMSTEKN VPLSKVAHKC FVEVNEEGTE  
 AAAATAVVRN SRCSRMEPRF CADHPFLFFI RHHKTNCILF CGRFSSP

**Purity** >95% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [SERPINB8 serpin peptidase inhibitor, clade B \(ovalbumin\), member 8 \[ Homo sapiens \]](#)

**Official Symbol** SERPINB8

**Synonyms** SERPINB8; serpin peptidase inhibitor, clade B (ovalbumin), member 8; PI8, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 8; serpin B8; CAP2; cytoplasmic antiproteinase 2; PI-8; peptidase inhibitor 8; protease inhibitor 8 (ovalbumin type); serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 8; PI8;

**Gene ID** [5271](#)

**mRNA Refseq** [NM\\_001031848](#)

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<b>Protein Refseq</b>	NP_001027018
<b>MIM</b>	601697
<b>UniProt ID</b>	P50452
<b>Chromosome Location</b>	18q21.3
<b>Function</b>	peptidase inhibitor activity; protein binding; serine-type endopeptidase inhibitor activity; serine-type endopeptidase inhibitor activity;

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