

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

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

SPECIFICATION

Product Overview	SERPINB8, 1-374aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-374 a.a.
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT
Molecular Mass	45.2 kDa (397aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDDLCEA NGTFAISLFK ILGEEDNSRN

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VFFSPMSISS ALAMVFMGAK GSTAAQMSQA LCLYKDGDH RGFQSLLSEV
 NRTGTQYLLR TANRLFGEKT CDFLPDFKEY CQKFYQAELE ELSFAEDTEE
 CRKHINDWVA EKTEGKISEV LDAGTVDPPLT KLVLVNAIYF KGKWNEQFDR
 KYTRGMLFKT NEEKKTVQMM 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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Protein Refseq	NP_001027018
MIM	601697
UniProt ID	P50452
Chromosome Location	18q21.3
Function	peptidase inhibitor activity; protein binding; serine-type endopeptidase inhibitor activity; serine-type endopeptidase inhibitor activity;

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