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# Recombinant human Serpin B8/Proteinase Inhibitor 8 protein

Catalog Number: ATGP2909

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

1-374aa

#### **UniProt No.**

P50452

#### **NCBI Accession No.**

NP 942130

#### **Alternative Names**

Serpin B8, Serpin B8, CAP2, PI8

#### PRODUCT SPECIFICATION

### **Molecular Weight**

45.2 kDa (397aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **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-



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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

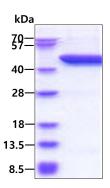
<MGSSHHHHHH SSGLVPRGSH MGS>MDDLCEA NGTFAISLFK ILGEEDNSRN VFFSPMSISS ALAMVFMGAK GSTAAQMSQA LCLYKDGDIH RGFQSLLSEV NRTGTQYLLR TANRLFGEKT CDFLPDFKEY CQKFYQAELE ELSFAEDTEE CRKHINDWVA EKTEGKISEV LDAGTVDPLT KLVLVNAIYF KGKWNEQFDR KYTRGMLFKT NEEKKTVQMM FKEAKFKMGY ADEVHTQVLE LPYVEEELSM VILLPDDNTD LAVVEKALTY EKFKAWTNSE KLTKSKVQVF LPRLKLEESY DLEPFLRRLG MIDAFDEAKA DFSGMSTEKN VPLSKVAHKC FVEVNEEGTE AAAATAVVRN SRCSRMEPRF CADHPFLFFI RHHKTNCILF CGRFSSP

#### **General References**

Sprecher C.A., et al. (1995) J. Biol. Chem. 270:29854-29861. Burkard T.R., et al. (2011) BMC Syst. Biol. 5:17-17.

### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

