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## Recombinant human Serpin B5/Maspin protein

Catalog Number: ATGP3868

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-375aa

#### UniProt No.

P36952

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

NP 002630

#### **Alternative Names**

Acrosomal serine protease inhibitor, IPSP, IPSP\_HUMAN, PAI 3, PAI-3, PAI-3, PCI, PCI-B, PLANH 3, PLANH3, Plasma serine protease inhibitor, Plasminogen activator inhibitor 3, Plasminogen activator inhibitor III, PROCI, Protein C inhibitor, Serpin A5, Serpin peptidase inhibitor clade A (alpha 1 antiproteinase antitrypsin) member 5, Serpin peptidase inhibitor clade A member 5, Serpina5

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

44.2 kDa (395aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

## **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

## **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### 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**

Serpin B5/Maspin, also known as serpin family B member 5, is a tumor suppressor protein of serine proteinase



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inhibitor family. It plays an essential role in embryonic development through critical roles in cell adhesion. Also, it is present in normal breast and prostatic epithelial cells but down regulated in the respective carcinomas. Recombinant human Serpin B5/Maspin, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

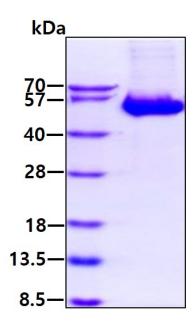
<MGSSHHHHHH SSGLVPRGSH> MDALQLANSA FAVDLFKQLC EKEPLGNVLF SPICLSTSLS LAQVGAKGDT ANEIGQVLHF ENVKDVPFGF QTVTSDVNKL SSFYSLKLIK RLYVDKSLNL STEFISSTKR PYAKELETVD FKDKLEETKG QINNSIKDLT DGHFENILAD NSVNDQTKIL VVNAAYFVGK WMKKFSESET KECPFRVNKT DTKPVQMMNM EATFCMGNID SINCKIIELP FQNKHLSMFI LLPKDVEDES TGLEKIEKQL NSESLSQWTN PSTMANAKVK LSIPKFKVEK MIDPKACLEN LGLKHIFSED TSDFSGMSET KGVALSNVIH KVCLEITEDG GDSIEVPGAR ILQHKDELNA DHPFIYIIRH NKTRNIIFFG KFCSP

#### **General References**

Lockett J., et al. (2006) J Cell Biochem. 97(4):651-60. Khalkhali Ellis Z., et al. (2006) Clin Cancer Res. 12(24):7279-83.

#### DATA

#### **SDS-PAGE**



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

