

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, PAI3, 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

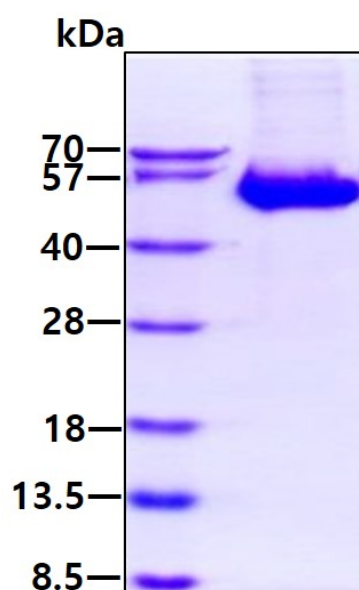
<MGSSHHHHH SSGLVPRGSH> MDALQLANSA FAVDLFKQLC EKEPLGNVLF SPICLSTSLS LAQVGAKGDT
ANEIGQVLHF ENVKDVPFGF QTVTSDVNKL SSFYSLKLIK RLYVDKSLNL STEFISSTKR PYAKELETVD FKDKLEETKG
QINNSIKDLT DGHFENILAD NSVNDQTKIL VVNAAYFVGK WMKKFSESET KECFPRVNKT DTKPVQMMNM EATFCMGNID
SINCKIIELP FQNKHLSMFI LLPKDVEDES TGLEKIEKQL NSESLSQWTN PSTMANAKVK LSIPKFKEK 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.