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

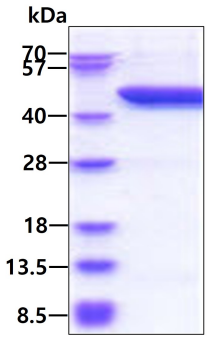
<MGSSHHHHHH SSGLVPRGSH MGS>MDDLCEA NGTFAISLFK ILGEEDNSRN VFFSPMSISS ALAMVFMGAK GSTAAQMSQA LCLYKDGDIH RGFQSLLSEV NRTGTQYLLR TANRLFGEKT CDFLPDFKEY CQKFYQAELE ELSFAEDTEE CRKHINDWVA EKTEGKISEV LDAGTVDPLT KLVLVNAIYF KGKWNEQFDR KYTRGMLFKT NEEKKTVQMM FKEAKFKMGY ADEVHTQVLE LPYVEEELSM VILLPDDNTD LAVVEKALTY EKFKAWTNSE 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.