

# Recombinant human CD147/BSG protein

Catalog Number: ATGP3737

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

22-207aa

### UniProt No.

P35613

### NCBI Accession No.

NP\_940991

### Alternative Names

Basigin isoform 2, OK, Ok blood group, Extracellular matrix metalloproteinase inducer, Tumor cell-derived collagenase stimulatory factor, TCSF, Collagenase stimulatory factor, Hepatoma-associated antigen, HAb18G, Leukocyte activation antigen M6, EMMPRIN, CD147, EMPRIN, 5F7

## PRODUCT SPECIFICATION

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### Molecular Weight

47.5 kDa (428aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Tag

hIgG-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

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### Description

BSG, also known as basigin isoform 2, is a type 1 transmembrane protein with various different N- and O-glycosylation that belongs to the immunoglobulin superfamily. As members of the immunoglobulin superfamily

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play fundamental roles in intercellular recognition involved in various immunologic phenomena, differentiation, and development, it is thought also to play a role in intercellular recognition. This protein has many ligands, including the cyclophilin (CyP) proteins Cyp-A and Cyp-B and certain integrins and regulates several distinct functions, such as spermatogenesis, expression of the mono-carboxylate transporter and the responsiveness of lymphocytes. Also, it induces the production and release of matrix metalloproteinases in the surrounding mesenchymal cells and tumor cells, and thereby promotes invasion, metastasis, growth and survival of malignant cells. Recombinant human BSG, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

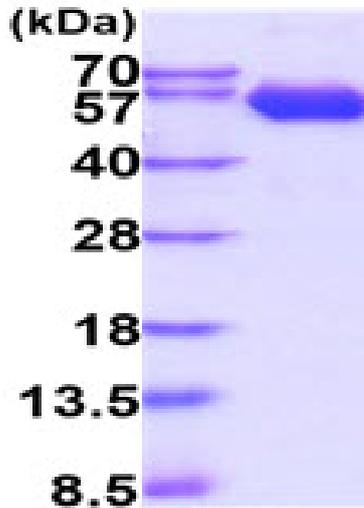
ADPAAGTVFT TVEDLGSKIL LTCSLNSAT EVTGHRWLKG GVVLKEDALP GQKTEFKVDS DDQWGEYSCV FLPEPMGTAN IQLHGPPRVK AVKSSEHINE GETAMLVCKS ESVPPVTDWA WYKITDSEDK ALMNGSERF FVSSSQGRSE LHIENLNMEA DPGQYRCNGT SSKGSDQAI TLRVRSHLAL EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTP PVLDSGGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNNH YTQKSLSLSP GKHHHHHH

## General References

Gabison EE., et al, (2005) *Biochimie* 87:361-368.  
Hanna SM., et al, (2003) *BMC Biochem* 4:17-25.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)