

Recombinant human CD147/BSG protein

Catalog Number: ATGP3737

PRODUCT INFORMATION

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

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

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

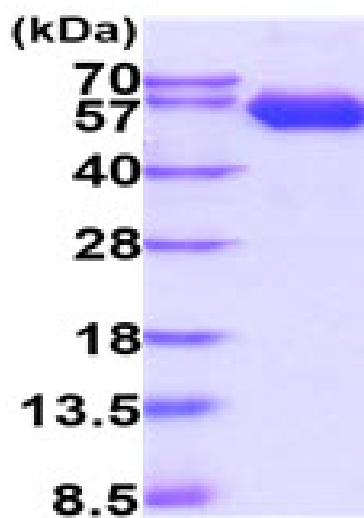
ADPAAGTVFT TVEDLGSKIL LTCSLNDSAT EVTGHRWLKG GVVLKEDALP GQKTEFKVDS DDQWGEYSCV FLPEPMGTAN IQLHGPPRVK AVKSSEHINE GETAMLVCKS ESVPVTDWA WYKITDSEDK ALMNGSESRF FVSSSQGRSE LHLENLMEA DPGQYRCNGT SSKGSDQAI TLRVRSHLAL EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTP PVLSDSGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNNH YTKSLSLSP GKHHHHHHH

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)