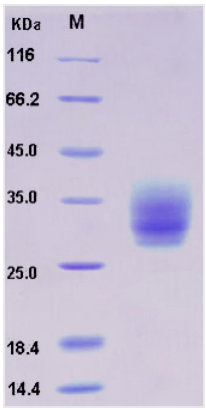
CD147 / EMMPRIN / Basigin (CD147 / EMMPRIN) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD147 / EMMPRIN / Basigin, Recombinant Protein
Full Product Name	Recombinant Mouse CD147 / EMMPRIN / Basigin Protein (His tag)
Product Gene Name	CD147 / EMMPRIN recombinant protein
Product Synonym Names	AI115436, AI325119, CD147, EMMPRIN, HT-7, Bsg
Host	Human Cells
Form/Format	Lyophilized from sterile PBS, pH 7.4
Purity/Purification	> 90 % as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	29,674 Da
3D Structure	ModBase 3D Structure for P18572
Predicted N Terminal	Ala 22
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for CD147 / EMMPRIN recombinant protein	The secreted recombinant mouse BSG comprises 199 amino acids and has a predicted molecular mass of 30 kDa. As a result of glycosylation, the apparent molecular mass of rm BSG is approximately 30-35 kDa in SDS-PAGE under reducing conditions.
Related Product Information for CD147 / EMMPRIN recombinant protein	Background: CD147/EMMPRIN (Extracellular Matrix Metalloproteinase Inducer), also known as Basigin (BSG), is a transmembrane glycoprotein with different forms resulted from different modes of glycosylation and N-terminal sequence variants. It is a member of the immunoglobulin superfamily with homology to both the immunoglobulin V domain and MHC class II antigen beta-chain. This protein play important roles in variety of events including spermatogenesis, embryo implantation, neural network formation. CD147 induces the production and release of matrix metalloproteinases (MMP) in the surrounding mesenchymal cells and tumor cells, and thereby promotes invasion, metastasis, growth and survival of malignant cells. Furthermore, CD147 also serves as a receptor for extracellular cyclophilinthe and its association with integrins might be important in signal transduction. Recently, CD147 displays increased expression in many cancers, and it has been previously demonstrated to participate in cancer metastasis and progression. Thus, CD147 and its antibody are used as an effective treatment for malignant cancers. Description: A DNA sequence encoding the extracellular domain of mouse BSG isoform 2 (NP_001070652.1) (Met 1-Arg 209) was expressed, fused with a polyhistidine tag at the C-terminus.
Other Notes	Small volumes of CD147 / EMMPRIN recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD147 / EMMPRIN purchase	MBS2547027 is a recombinant protein targeting CD147 / EMMPRIN. Also known as Recombinant Mouse CD147 / EMMPRIN / Basigin Protein (His tag). Host: Human Cells.



SDS-PAGE of CD147 / EMMPRIN recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD147 / EMMPRIN. It may not necessarily be applicable to this product.

NCBI GI #	116014342
NCBI GeneID	12215
NCBI Accession #	NP_001070652.1
UniProt Primary Accession #	P18572
UniProt Secondary Accession #	Q6LDB0; Q7TSC0
UniProt Related Accession #	P18572
GenBank Nucleotide #	NM_001077184.1
NCBI Official Full Name	basigin isoform 2
NCBI Official Synonym Full Names	basigin
NCBI Official Symbol	Bsg
NCBI Official Synonym Symbols	HT-7; CD147; EMMPRIN; AI115436; AI325119
UniProt Protein Name	Basigin
UniProt Synonym Protein Names	Basic immunoglobulin superfamily; HT7 antigen; Membrane glycoprotein gp42; CD_antigen: CD147
UniProt Gene Name	Bsg
NCBI Protein Information	basigin
UniProt Comments for CD147 / EMMPRIN	BSG: Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPS). May target monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to plasma membranes of retinal pigment epithelium and neural retina. Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes. Enriched on the surface of tumor cells. Up-regulated in gliomas. Its expression levels correlate with malignant potential of the tumor. Forms homooligomers in a cis-dependent manner on the plasma membrane. Forms a complex with MMP1 at the tumor cell surface. Interacts with SLC16A1 and SLC1A3; probably a BSG dimer is associated with a monocarboxylate transporter dimer. Interacts with ATP1B2, MAG and L1CAM. Interacts with AJAP1. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Immunoglobulin superfamily; Membrane protein, integral Chromosomal Location of Human Ortholog: 10 C1|10 39.72 cM Cellular Component: acrosomal membrane; cell-cell adherens junction; focal adhesion; integral to plasma membrane; lipid raft; membrane; mitochondrion; plasma membrane; sarcolemma

Research Articles on CD147 / EMMPRIN	**1.** knockdown of CD147 on Hepa1-6 cells resulted in significantly increased T cells chemotaxis induced by CypA both in vivo and in vitro.
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