

# Recombinant Human CD147/Basigin Protein

Catalog Number:PKSH031783



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

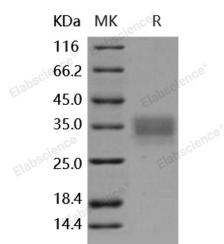
## Description

<b>Synonyms</b>	Basigin;5F7;Collagenase Stimulatory Factor;Extracellular Matrix Metalloproteinase Inducer;EMMPRIN;Leukocyte Activation Antigen M6;OK Blood Group Antigen;Tumor Cell-Derived Collagenase Stimulatory Factor;TCSF;CD147;BSG
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-His 205
<b>Accession</b>	NP_940991.1
<b>Calculated Molecular Weight</b>	20.7 kDa
<b>Observed molecular weight</b>	35-38 kDa
<b>Tag</b>	None

## Properties

<b>Purity</b>	> 97 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 97 % as determined by reducing SDS-PAGE.

## 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

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malignant cells. Furthermore; CD147 also serves as a receptor for extracellular cyclophilin 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.

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