Recombinant Human BSG, His-tagged, Biotinylated

Cat. No. BSG-192H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated rh CD147 /EMMPRIN Protein,Superior Sensitivity (Biotinylated rh CD147 /EMMPRIN) Ala 22 - His 205 (NP_940991.1), was chemically labeled with specially optimized long spacer biotin reagent based on rh CD147 Protein, which was produced in human
Species	Human
Source	HEK293
ProteinLength	22-205 a.a.
Description	CD147, also known as Basigin (BSG), or extracellular matrix metalloproteinase inducer (EMMPRIN). The human basigin protein contains 269 amino acids that form two heavily glycosylated C2 type immunoglobulin-like domains at the N-terminal extracellular portion. A second form of basigin has also been characterized that contains one additional immunoglobulin-like domain in its extracellular portion. As members of the immunoglobulin superfamily play fundamental roles in intercellular recognition involved in various immunologic phenomena, differentiation, and development, basigin is thought also to play a role in intercellular recognition and regulate several distinct functions, such as spermatogenesis, expression of the monocarboxylate transporter and the responsiveness of lymphocytes. Basigin is a type I integral membrane receptor that has many ligands, including the cyclophilin (CyP) proteins Cyp-A and CyP-B and certain integrins.The primary amine of Biotinylated rh CD147 /EMMPRINwas chemically labeled by specially optimized long

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	spacer biotin reagent without decreasing its bioactivity, and has been used successfully for easy detection in ELISA, dot blot or Western blot, immunohistochemistry applications using streptavidin or avidin-conjugated probes. Biotin reagent with optimized long spacer provides improved biotin exposure and less steric hindrance,thus giving superior sensitivity and response when detection with streptavidin. Biotin and other reactive related chemicals have been removed thoroughly by desalting after reaction termination.
Predicted N Terminal	Ala 22
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.
Molecular Mass	Biotinylated rh CD147 /EMMPRIN is fused with a polyhistidine tag at the C-terminus, and has a calculated MW of 21.6 kDa. The predicted N-terminus is Ala 22. DTT-reduced Protein migrates as 24-33 kDa in SDS-PAGE due to glycosylation.The primary amine of B
Endotoxin	Less than 1.0 EU per μg of the Biotinylated rh CD147 /EMMPRIN by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Applications	Biotin Labeled Protein
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC).
Conjugation	Biotin

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GENE INFORMATION

Gene Name	BSG basigin (Ok blood group) [Homo sapiens]
Official Symbol	BSG
Synonyms	BSG; basigin (Ok blood group); basigin (OK blood group) , OK; basigin; CD147; EMMPRIN; CD147 antigen; OK blood group antigen; collagenase stimulatory factor; leukocyte activation antigen M6; extracellular matrix metalloproteinase inducer; tumor cell-derived collagenase stimulatory factor; M6; OK; 5F7; TCSF;
Gene ID	682
mRNA Refseq	NM_001728
Protein Refseq	NP_001719
MIM	109480
UniProt ID	P35613
Chromosome Location	19p13.3
Pathway	Basigin interactions, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; Integrin cell surface interactions, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem; Metabolism, organism-specific biosystem; Pyruvate metabolism, organism-specific biosystem;
Function	lactate transmembrane transporter activity; mannose binding; sugar binding;

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