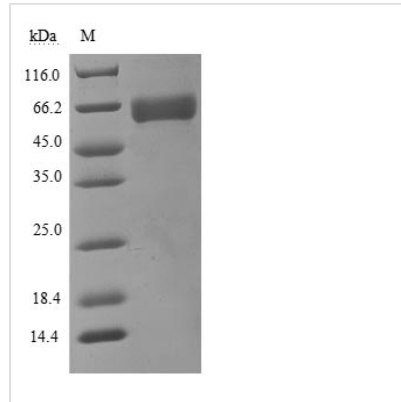




Recombinant Human Basigin (BSG), partial

Product Code	CSB-MP002831HU
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P35613
Storage Buffer	Tris-based buffer,50% glycerol
Alias	5A11 antigen; 5F7; BASI_HUMAN; Basigin (Ok blood group); Basigin; Blood brain barrier HT7 antigen; Bsg; CD 147; CD147; CD147 antigen; Collagenase stimulatory factor; EMMPRIN; Extracellular matrix metalloproteinase inducer; Leukocyte activation antigen M6; M 6; M6; M6 leukocyte activation antigen; Neurothelin; OK; OK blood group; OK blood group antigen; TCSF; Tumor cell derived collagenase stimulatory factor; Tumor cell-derived collagenase stimulatory factor
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	EPGTVFTTVEDLGSKILLTCSLNDSEVTGHRWLKGGVVLKEDALPGQKTEF KVDSDDQWGEYSCVFLPEPMGTANIQLHGPPRVKAVKSSEHINEGETAMLVC KSESVPPVTDWAWYKITDSEDKALMNGSESRFFVSSSQGRSELHIENLNMEA DPGQYRCNGTSSKGSQAIITLRVRSHLA
Research Area	Cancer
Source	Mammalian cell
Target Names	BSG
Protein Names	Recommended name: Basigin Alternative name(s): 5F7 Collagenase stimulatory factor Extracellular matrix metalloproteinase inducer Short name= EMMPRIN Leukocyte activation antigen M6 OK blood group antigen Tumor cell-derived collag
Expression Region	138-323aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal hFc-tagged
Mol. Weight	49.3
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The gene fragment corresponding to the 138-323aa of the human BSG protein was synthesized, with appropriate restriction sites suitable for in-frame cloning into an expression vector, with C-terminal hFc tag. The Mammalian cell was transformed with the expression vector, and the clone was expressed upon certain induction. After the induced cell centrifugation, the recombinant protein was purified from the cell extract and presented as C-terminal hFc-tagged fusion. This recombinant human BSG protein's purity is greater than 85% assayed by SDS-PAGE. The BSG protein ran to a band of about 5 kDa molecular weight on the gel.

BSG also named CD147, a highly glycosylated transmembrane protein belonging to the immunoglobulin superfamily, is widely expressed in hematopoietic cells, endothelial cells, and epithelial cells in a variety of organs, particularly in the liver and kidneys. A wide range of BSG binding partners have been described to date, including caveolin, cyclophilin, MCTs, and BSG itself. Basigin is a multifunctional transmembrane glycoprotein with various binding partners. Among the most prominent claims for an alternate SARS-CoV-2 host receptor comes from a report identifying BSG as a binding partner for the SARS-CoV-2 spike protein with functional significance in viral invasion. Notably, the original finding that basigin is a possible alternative SARS-CoV-2 receptor has already translated into an open-label clinical trial of a humanized therapeutic monoclonal antibody against basigin, meplazumab, which reported striking improvements in COVID-19 patients treated with antibody.

Shelf Life

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