



Recombinant Human Basigin (BSG), partial

Product Code	CSB-RP117574h
Relevance	Plays an important role in targeting the monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to the plasma mbrane. Plays pivotal roles in spermatogenesis, bryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPS). Ses to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes.
Abbreviation	Recombinant Human BSG protein, partial
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
Alias	5F7Collagenase stimulatory factorExtracellular domain matrix metalloproteinase inducer ;EMMPRINLeukocyte activation antigen M6OK blood group antigen;Tumor cell-derived collagenase stimulatory factor ;TCSF; CD147
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	EPGTVFTTVEDLGSKILLTCSLNDSEVTGHRWLKGGVVLKEDALPGQKTEF KVDSDDQWGEYSCVFLPEPMGTANIQLHGPPRVKAVKSSEHINEGETAMLVC KSESVPPVTDWAWYKITDSEDKALMNGSESRRFFVSSSQGRSELHIENLNMEA DPGQYRCNGTSSKGSQAIITLRVRS
Research Area	Cancer
Source	E.coli
Target Names	BSG
Expression Region	138-321aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	24.2kDa
Protein Length	Partial
Image	



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

Description

The production of the recombinant human basigin (BSG) is through the expression of the gene fragment mapping within amino acids 138-321 of the human BSG protein in E.coli. This partial-length recombinant BSG protein is tagged with a 6xHis motif at the N-terminus, which allows for purification of this fusion protein through metal affinity chromatography. Its purity is greater than 90% determined by SDS-PAGE. It migrated to the molecular weight band of approximately 25 kDa on the gel. The target protein BSG, also called CD147 or EMMPRIN, is important in vision, spermatogenesis, and other physiological phenomena. It also plays a significant role in the pathogenesis of numerous diseases, including cancer. Recent findings point out that BSG exerts a significant role in SARS-CoV-2 invasion as a binding partner for the SARS-CoV-2 spike protein.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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