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## Product Data Sheet

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Product Name: BSG Human  
 Cat. No.: GP22901  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Basigin isoform 2; 5F7; CD147; EMMPRIN; OK; TCSF; Leukocyte activation antigen M6; OK blood group antigen.		
Amino Acid Sequence	ADPAAGTVFT TVEDLGSKIL LTCSLNDSAT EVTGHRWLKG GVVLKEDALP GQKTEFKVDS DDQWGEYSCV FLPEPMGTAN IQLHGPPRVK AVKSSEHINE GETAMLVCKS ESVPPVTDWA WYKITDSEDK ALMNGSESRF FVSSSQGRSE LHIENLNMEA DPGQYRCNGT SSKGSDQAITLRVRS HLAL EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAPIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNGQPENNYKTTP PVLDS DGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNH YTQKSLSLSP GKHHHHHHH.		
Formulation	BSG protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

### Introduction

Basigin Isoform 2 or BSG is a part of the immunoglobulin superfamily, it is a type 1 transmembrane protein which has a variety of N and O- glycosylation. BSG has several ligands, such as integrins, cyclophilin proteins Cyp-A & Cyp-B. The protein has a crucial role in intercellular recognition, it takes part in many immunologic processes, differentiation and cell development. Also, it regulates numerous cell processes such as production and release of expression of the mono-carboxylate transporter, spermatogenesis, etc. Basigin Isoform 2 promotes invasion, metastasis, growth and survival of malignant cells by producing and releasing matrix metalloproteinases nearby mesenchymal cells and tumor cells.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

BSG produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 428 amino acids (22-207a.a.) and having a molecular mass of 47.5kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). BSG is expressed with a 242 amino acid hIgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

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