



**Catalog Number:** PR27266

**Product Type:** Recombinant Protein

**Source:** Sf9, Baculovirus cells

**Amino Acid Sequence:** ADPAAGTVFT TVEDLGSKIL LTCSLNSAT EVTGHRWLKG GVVVKEDALP GQKTEFKVDS DDQWGEYSCV FLPEPMGTAN IQLHGPPRVK AVKSSSEHINE GETAMLVCKS ESVPPVTDWA WYKITDSEDK ALMNGSESRF FVSSSQGRSE LHIEENLNMEA DPGQYRCNGT SSKGSDQAI TLRVRSRLAL EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS DIAVEWESNG QPENNYKTRP PVLDSGDSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNH YTKLSLSLSP GKHHHHHHH.

**Description/Molecular Mass:** Basigin Isoform 2 or BSG is a part of the immunoglobulin superfamily, it is a type 1 transmembrane protein which has a variety of Nand 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.

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 hIlgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

**Purity:** Greater than 90.0% as determined by:  
(a) Analysis by SDS-PAGE.

**Format:** BSG protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.

**Storage:** 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.

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