

Basigin/CD147 Protein, Human (HEK293, His)

Cat. No.:	HY-P70029
Synonyms:	rHuBasigin/CD147, His ; Basigin; 5F7; Collagenase Stimulatory Factor; Extracellular Matrix Metalloproteinase Inducer; EMMPRIN; Leukocyte Activation Antigen M6; OK Blood Group Antigen; Tumor Cell-Derived Collagenase Stimulatory Factor; TCSF; CD147; BSG
Species:	Human
Source:	HEK293
Accession:	P35613-2 (A22-H205)
Gene ID:	682
Molecular Weight:	30-40 kDa

PROPERTIES

AA Sequence	<p>A A G T V F T T V E D L G S K I L L T C S L N D S A T E V T G H R W L K G G V V</p> <p>L K E D A L P G Q K T E F K V D S D D Q W G E Y S C V F L P E P M G T A N I Q L</p> <p>H G P P R V K A V K S S E H I N E G E T A M L V C K S E S V P P V T D W A W Y K</p> <p>I T D S E D K A L M N G S E S R F F V S S S Q G R S E L H I E N L N M E A D P G</p> <p>Q Y R C N G T S S K G S D Q A I I T L R V R S H</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Basigin/BSG protein is essential for the normal maturation and development of the retina, functioning as a critical cell surface receptor for NXNL1 and playing a pivotal role in NXNL1-mediated survival of retinal cone photoreceptors. Collaborating with glucose transporter SLC16A1/GLUT1 and NXNL1, Basigin/BSG promotes the survival of retinal cones by facilitating aerobic glycolysis and accelerating glucose entry into photoreceptors. Additionally, it serves as a potent inducer of IL6 secretion in various cell lines, including monocytes. In the context of microbial infection, Basigin/BSG acts as an erythrocyte receptor for <i>P. falciparum</i> RH5, playing an indispensable role in erythrocyte invasion by the merozoite stage of <i>P. falciparum</i> isolates 3D7 and Dd2. These diverse functions highlight the multifaceted roles of Basigin/BSG in cellular</p>
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processes and host-pathogen interactions.

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

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