

## Basigin/CD147 Protein, Human (Biotinylated, HEK293, Avi-His)

Cat. No.:	HY-P72350
Synonyms:	Basigin; HT7 antigen; Membrane glycoprotein gp42; Bsg
Species:	Human
Source:	HEK293
Accession:	P35613-2 (A22-H205)
Gene ID:	682
Molecular Weight:	30-45 kDa

### PROPERTIES

AA Sequence	<pre> 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 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 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 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 Q Y R C N G T S S K   G S D Q A I I T L R   V R S H           </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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 <sub>2</sub> 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.

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

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