

Basigin/CD147 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P76202
Synonyms:	Basigin; HT7 antigen; Membrane glycoprotein gp42; Bsg
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005587354 (A19-H209)
Gene ID:	102121721
Molecular Weight:	Approximately 27-33 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<p> A Y G A A G T V S T S V E N I G S K T L L T C S L N D S S T E V T G H R W L K G G A V L K E D T L P G Q K T D F E V D S D D L G G E Y S C V F L P E P T G R A D I Q L D A L L S G A P R V K A V K S S E H V S E G E T A V L A C K S E S L P P V T T W V W Y K I T D S G D Q V I V N G S Q G R F F V S S S Q G R S E L R I E N L N M E A D P G K Y A C N G T S S E G T D Q A T V T L R V R S H </p>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant SARS-COV-2 S Protein is immobilized at 1 µg/mL (100 µL/well) can bind Recombinant Cynomolgus CD147. The ED ₅₀ for this effect is 10.35 µg/mL.
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 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	Basigin has isoforms; the common form (basigin or basigin-2) has two immunoglobulin domains, and the extended form (basigin-1) has three. Basigin-1 serves as the receptor for the rod-derived cone viability factor. In the same membrane plane, basigin also associates with other proteins including GLUT1, CD44 and CD98. The carbohydrate portion of basigin is recognized by lectins, such as galectin-3 and E-selectin. These molecular recognitions form the basis for the role of basigin
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in the transport of nutrients, migration of inflammatory leukocytes and induction of matrix metalloproteinases. Basigin is important in vision, spermatogenesis and other physiological phenomena, and plays significant roles in the pathogenesis of numerous diseases, including cancer. Basigin is also the receptor for an invasive protein RH5, which is present in malaria parasites^[1].

The CD147 gene, designated BSG for basigin, is located on chromosome 19p13.3 and encodes a 29 kD protein, though migration on SDS-PAGE usually occurs between 35–65 kD, depending on the degree of glycosylation. Three glycosylation sites have been identified within the CD147 Ig like domains: two within the membrane proximal Ig domain and one within the distal Ig domain^[3].

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

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