

FITC-Labeled Basigin/CD147 Protein, Human (HEK293, His)

Cat. No.:	HY-P701289
Synonyms:	Basigin; BSG; 5F7; CD147; EMMPRIN; M6; OK; TCSF
Species:	Human
Source:	HEK293
Accession:	P35613-2 (A22-H205)
Gene ID:	682
Molecular Weight:	28-35 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 μ m filtered solution of PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 1 year, protect from light. 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 processes and host-pathogen interactions.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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