CEACAM1 Protein, Human (N-His)

Cat. No.:	HY-P72129A
Synonyms:	Antigen CD66; BGP 1; BGP; BGP-1; BGPI; Biliary glycoprotein 1; Biliary glycoprotein adhesion molecule; Biliary glycoprotein; Carcinoembryonic antigen related cell adhesion molecule 1; carcinoembryonic antigen-related cell adhesion molecule 1 biliary glycoprotein; ; Carcinoembryonic antigen-related cell adhesion molecule 1; CD66a; CD66a antigen; CEACAM1; CEAM1_HUMAN; meconium antigen 100
Species:	Human
Source:	E. coli
Accession:	P13688 (Q35-G428)
Gene ID:	634
Molecular Weight:	Approximately 45 kDa

PROPERTIES

AA Sequence	Q L T T E S M P F N V A E G K E V L L L V H N L P Q Q L F G Y S W Y K G E R V D G N R Q I V G Y A I G T Q Q A T P G P A N S G R E T I Y P N A S L L I Q N V T Q N D T G F Y T L Q V I K S D L V N E E A T G Q F H V Y P E L P K P S I S S N N S N P V E D K D A V A F T C E P E T Q D T T Y L W W I N N Q S L P V S P R L Q L S N G N R T L T L L S V T R N D T G P Y E C E I Q N P V S A N R S D P V T L N V T Y G P D T P T I S P S D T Y Y R P G A N L S L S C Y A A S N P P A Q Y S W L I N G T F Q Q S T Q E L F I P N I T V N N S G S Y T C H A N N S V T G C N R T T V K T I I V T E L S P V V A K P Q I K A S K T T V T G D K D S V N L T C S T N D T G I S I R W F F K N Q S L P S S E R M K L S Q G N T T L S I N P V K R E D A G T Y W C E V F N P I S K N Q S D P I M L N V N Y N A L P Q E N G L S P G
Biological Activity	Measured by its ability to inhibit IL-2 secretion by HuT 78 human cutaneous T cell lymphoma cells in the presence of anti-CD3. The ED_{50} for this effect is 1.534 ng/mL, corresponding to a specific activity is 6.51×10^5 U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	The SF3R gene is involved in various biological processes and functions. It regulates insulin action by promoting the clearance of insulin and regulating lipogenesis in the liver. Upon insulin stimulation, SF3R undergoes phosphorylation by the insulin receptor (INSR), leading to increased insulin endocytosis and degradation. This results in a reduction of fatty acid synthesis. SF3R also plays a role in down-regulating cell proliferation through its interaction with SHC1, which decreases the coupling of SHC1 to the MAPK3/ERK1-MAPK1/ERK2 and phosphatidylinositol 3-kinase pathways.

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