

CD58 Protein, Human (HEK293, His)

Cat. No.:	HY-P72720
Synonyms:	Lymphocyte Function-Associated Antigen 3; Surface Glycoprotein LFA-3; CD58; LFA3; Ag3; CD58 antigen
Species:	Human
Source:	HEK293
Accession:	AAH05930 (F29-R215)
Gene ID:	965
Molecular Weight:	30-60 kDa

PROPERTIES

AA Sequence	<pre> F S Q Q I Y G V V Y G N V T F H V P S N V P L K E V L W K K Q K D K V A E L E N S E F R A F S S F K N R V Y L D T V S G S L T I Y N L T S S D E D E Y E M E S P N I T D T M K F F L Y V L E S L P S P T L T C A L T N G S I E V Q C M I P E Y Y N S H R G L I M Y S W D C P M E Q C K R N S T S I Y F K M E N D L P Q K I Q C T L S N P L F N T T S S I I L T T C I P S S G H S R H R </pre>
Biological Activity	Measured in a cell proliferation assay using PHA-stimulated THP-1 human erythroleukemic cells. The ED ₅₀ for this effect is 0.4424 µg/mL, corresponding to a specific activity is 2.26×10 ³ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, 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	CD58, a glycoprotein, also known as lymphocyte-function antigen 3 (LFA-3). CD58 is a costimulatory receptor, and is distributed on various human tissue cells, such as T lymphocytes, NK cells, thymocytes, and a subset of bone marrow cells. CD58 can interact with its natural ligand (CD2, primarily expressed on the surface of T/NK cells). The CD2-CD58 interaction can promote cell adhesion and recognition, and regulate antiviral responses, inflammatory responses in autoimmune
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diseases, immune rejection of transplantation, and immune evasion of tumor cells^[1]. CD58 has two isoforms: a type-I transmembrane form and a glycosylphosphatidylinositol (GPI)-anchored form. The GPI-anchored CD58 form is more effective in enhancing adhesion, but the transmembrane form is more critical for signal transduction. Furthermore, a soluble form of CD58 (sCD58) also exist in cellular supernatant in vitro and in local tissues in vivo. sCD58 is an immunosuppressive factor, and is involved in T/NK cell-mediated immune responses by affecting CD2-CD58 interaction. Altered accumulation of sCD58 may lead to immunosuppression of T/NK cells in the tumor microenvironment. Therefore, sCD58 as a novel immunotherapeutic target.^[1]

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

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