

CD21 Protein, Human (HEK293, His)

Cat. No.:	HY-P72890
Synonyms:	Complement receptor type 2; Cr2; EBV receptor; CD21; C3DR
Species:	Human
Source:	HEK293
Accession:	P20023-1 (I21-R971)
Gene ID:	1380
Molecular Weight:	110-120 kDa

PROPERTIES

AA Sequence

```

I S C G S P P P I L   N G R I S Y Y S T P   I A V G T V I R Y S   C S G T F R L I G E
K S L L C I T K D K   V D G T W D K P A P   K C E Y F N K Y S S   C P E P I V P G G Y
K I R G S T P Y R H   G D S V T F A C K T   N F S M N G N K S V   W C Q A N N M W G P
T R L P T C V S V F   P L E C P A L P M I   H N G H T S E N V   G S I A P G L S V T
Y S C E S G Y L L V   G E K I I N C L S S   G K W S A V P P T C   E E A R C K S L G R
F P N G K V K E P P   I L R V G V T A N F   F C D E G Y R L Q G   P P S S R C V I A G
Q G V A W T K M P V   C E E I F C P S P P   P I L N G R H I G N   S L A N V S Y G S I
V T Y T C D P D P E   E G V N F I L I G E   S T L R C T V D S Q   K T G T W S G P A P
R C E L S T S A V Q   C P H P Q I L R G R   M V S G Q K D R Y T   Y N D T V I F A C M
F G F T L K G S K Q   I R C N A Q G T W E   P S A P V C E K E C   Q A P P N I L N G Q
K E D R H M V R F D   P G T S I K Y S C N   P G Y V L V G E E S   I Q C T S E G V W T
P P V P Q C K V A A   C E A T G R Q L L T   K P Q H Q F V R P D   V N S S C G E G Y K
L S G S V Y Q E C Q   G T I P W F M E I R   L C K E I T C P P P   P V I Y N G A H T G
S S L E D F P Y G T   T V T Y T C N P G P   E R G V E F S L I G   E S T I R C T S N D
Q E R G T W S G P A   P L C K L S L L A V   Q C S H V H I A N G   Y K I S G K E A P Y
F Y N D T V T F K C   Y S G F T L K G S S   Q I R C K A D N T W   D P E I P V C E K E
T C Q H V R Q S L Q   E L P A G S R V E L   V N T S C Q D G Y Q   L T G H A Y Q M C Q
D A E N G I W F K K   I P L C K V I H C H   P P P V I V N G K H   T G M M A E N F L Y
G N E V S Y E C D Q   G F Y L L G E K K L   Q C R S D S K G H G   S W S G P S P Q C L
R S P P V T R C P N   P E V K H G Y K L N   K T H S A Y S H N D   I V Y V D C N P G F
I M N G S R V I R C   H T D N T W V P G V   P T C I K K A F I G   C P P P P K T P N G
N H T G G N I A R F   S P G M S I L Y S C   D Q G Y L L V G E A   L L L C T H E G T W
S Q P A P H C K E V   N C S S P A D M D G   I Q K G L E P R K M   Y Q Y G A V V T L E
C E D G Y M L E G S   P Q S Q C Q S D H Q   W N P P L A V C R S   R
  
```

Biological Activity Measured by its binding ability in a functional ELISA. Immobilized Human CD21, at 2 µg/mL (100 µl/well) can bind Biotinylated Human Annexin VI/ANXA6, the ED₅₀ for this effect is 378.6 ng/mL.

Appearance Lyophilized powder

Formulation Lyophilized from a 0.2 µm filtered solution of 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

CD21 protein functions as a receptor for complement C3, Epstein-Barr virus on human B-cells and T-cells, as well as for HNRNPU. It plays a crucial role in the activation of B lymphocytes and serves as a receptor for the Epstein-Barr virus during microbial infection. The engagement of CD21 with these ligands underscores its significance in mediating immune responses and interactions with both pathogens and endogenous factors, contributing to the regulation of B-cell activation and the host's defense against infections.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA