

## CD97 Protein, Human (HEK293, His)

Cat. No.:	HY-P75369
Synonyms:	Adhesion G protein-coupled receptor E5; CD97; ADGRE5
Species:	Human
Source:	HEK293
Accession:	P48960-2/NP_001775.2 (Q21-Q398)
Gene ID:	976
Molecular Weight:	60-82 kDa

### PROPERTIES

AA Sequence	<p>           Q D S R G C A R W C    P Q N S S C V N A T    A C R C N P G F S S    F S E I I T T P T E            T C D D I N E C A T    P S K V S C G K F S    D C W N T E G S Y D    C V C S P G Y E P V            S G A K T F K N E S    E N T C Q D V D E C    S S G Q H Q C D S S    T V C F N T V G S Y            S C R C R P G W K P    R H G I P N N Q K D    T V C E D M T F S T    W T P P P G V H S Q            T L S R F F D K V Q    D L G R D S K T S S    A E V T I Q N V I K    L V D E L M E A P G            D V E A L A P P V R    H L I A T Q L L S N    L E D I M R I L A K    S L P K G P F T Y I            S P S N T E L T L M    I Q E R G D K N V T    M G Q S S A R M K L    N W A V A A G A E D            P G P A V A G I L S    I Q N M T T L L A N    A S L N L H S K K Q    A E L E E I Y E S S            I R G V Q L R R L S    A V N S I F L S H N    N T K E L N S P I L    F A F S H L E S S D            G E A G R D P P A K    D V M P G P R Q         </p>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized human CD55 at 2 µg/ml (100 µl/well) can bind Biotinylated human CD97. The ED <sub>50</sub> for this effect is 14.12 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 <sub>2</sub> O.
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

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**Background**

CD97, a receptor with potential involvement in both adhesion and signaling processes during early leukocyte activation, plays a crucial role in facilitating leukocyte migration. This receptor forms a heterodimer, comprising a large extracellular alpha subunit non-covalently linked to a seven-transmembrane beta subunit. CD97 interacts with complement decay-accelerating factor (DAF) and the largest isoform (isoform 1) specifically engages with chondroitin sulfate, highlighting its diverse interactions in cellular processes.

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

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