

CD3E-CD3G Heterodimer Protein, Mouse (HEK293, Fc)

| | |
|--------------------------|--|
| Cat. No.: | HY-P75414 |
| Synonyms: | AI504783 Protein; CD3 Protein; CD3epsilon Protein; T3e Protein |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | NP_031674.1 (D23-D108)&NP_033980.1 (Q23-S116) |
| Gene ID: | 12501&12502 |
| Molecular Weight: | Approximately 38-40 kDa |

PROPERTIES

| | |
|--------------------------------|---|
| AA Sequence | <p> D A E N I E Y K V S I S G T S V E L T C P L D S D E N L K W E K N G Q E L P Q K H D K H L V L Q D F S E V E D S G Y Y V C Y T P A S N K N T Y L Y L K A R V C E Y C V E V D & : Q T N K A K N L V Q V D G S R G D G S V L L T C G L T D K T I K W L K D G S I I S P L N A T K N T W N L G N N A K D P R G T Y Q C Q G A K E T S N P L Q V Y Y R M C E N C I E L N I G T I S </p> |
| Biological Activity | Immobilized Human CD3E-CD3G at 2 µg/mL (100 µL/well) can bind Anti-CD3 Antibody. The ED ₅₀ for this effect is 1.792 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 | The CD3E protein, predicted to possess various functions such as SH3 domain binding activity, identical protein binding activity, and protein heterodimerization activity, plays a crucial role in nervous system development and the positive |
|-------------------|--|

regulation of cell adhesion. It is actively involved upstream of multiple processes, including positive regulation of T cell activation, positive regulation of cytokine production, and regulation of signal transduction. The protein is located in diverse cellular components, including dendritic spines, the external side of the plasma membrane, and immunological synapses. As part of the alpha-beta T cell receptor complex, its expression is observed in the colon and hemolymphoid system. The human ortholog of this gene, CD3E, has implications in immunodeficiency 18, highlighting its significance in immune system functionality. Biased expression is evident in tissues such as the thymus and spleen, underscoring its role in immune processes.

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