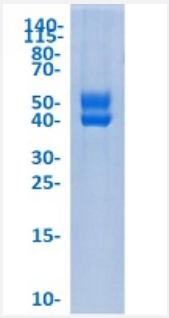
Bioactive HuPro®

CD3E/CD3D (Human) Recombinant Protein

Catalog # P6739 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human CD3E/CD3D (P07766, 23 a.a. - 126 a.a./P04234, 22 a.a. - 105 a.a.) partial recombinant protein with a Fc tag at the C-terminus expressed in mammalian cells.
Host	Human
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293) expression system
Purification	Protein A purification
Purity	> 95% (determined by SDS-PAGE)
Endotoxin Level	< 0.1 EU/ug of protein (determined by LAL method)

Activity	Immobilized human CD3E and CD3D heterodimer protein at 0.5 ug/mL (100 uL/well), dose respons e curve for Anti-hCD3e mAb with the EC_{50} of 21.69 ng/mL determined by ELISA.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Conformation	Heterodimer
Storage Buffer	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Storage Instruction	Store at -80°C on dry atmosphere, lyophilized antibodies are stable at least 2 years. After reconstitution with deionized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- SDS-PAGE

Gene Info — CD3D

Entrez GeneID	915
Protein Accession#	P07766;P04234
Gene Name	CD3D
Gene Alias	CD3-DELTA, T3D
Gene Description	CD3d molecule, delta (CD3-TCR complex)
Omim ID	186790 600802
Gene Ontology	Hyperlink

Gene Summary	The protein encoded by this gene is part of the T-cell receptor/CD3 complex (TCR/CD3 complex) and is involved in T-cell development and signal transduction. The encoded membrane protein re presents the delta subunit of the CD3 complex, and along with four other CD3 subunits, binds eith er TCR alpha/beta or TCR gamma/delta to form the TCR/CD3 complex on the surface of T-cells. Defects in this gene are a cause of severe combined immunodeficiency autosomal recessive T-c ell-negative/B-cell-positive/NK-cell-positive (SCIDBNK). Two transcript variants encoding different isoforms have been found for this gene. Other variants may also exist, but the full-length natures of their transcripts has yet to be defined. [provided by RefSeq
Other Designations	CD3D antigen, delta polypeptide|CD3d antigen, delta polypeptide (TiT3 complex)|T-cell receptor T3 delta chain|T-cell surface glycoprotein CD3 delta chain

Gene Info — CD3E

Entrez GeneID	916
Protein Accession#	P07766;P04234
Gene Name	CD3E
Gene Alias	FLJ18683, T3E, TCRE
Gene Description	CD3e molecule, epsilon (CD3-TCR complex)
Omim ID	186830
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gam ma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognitio n to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma a nd delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptid e plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. Thi s gene has also been linked to a susceptibility to type I diabetes in women. [provided by RefSeq
Other Designations	CD3-epsilon|CD3E antigen, epsilon polypeptide|CD3e antigen, epsilon polypeptide (TiT3 compl ex)|T-cell antigen receptor complex, epsilon subunit of T3|T-cell surface antigen T3/Leu-4 epsilon chain|T-cell surface glycoprotein CD3 epsilon chain

Pathway

- Hematopoietic cell lineage
- Hematopoietic cell lineage
- Primary immunodeficiency

- Primary immunodeficiency
- T cell receptor signaling pathway
- T cell receptor signaling pathway

Disease

- Asthma
- Cardiovascular Diseases
- Celiac Disease
- Celiac Disease
- Depressive Disorder
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Inflammation