

Bioactive

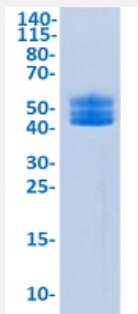
HuPro®

CD3E/CD3G (Human) Recombinant Protein

Catalog # P6741

Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

□

Specification

Product Description	Human CD3E/CD3G (P07766, 23 a.a. - 126 a.a./P09693, 23 a.a. - 116 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/CD3G heterodimer protein at 0.5 ug/mL (100 uL/well), dose response curve for Anti-hCD3e mAb with the EC ₅₀ of 1.22 ug/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 — CD3E

Entrez GeneID	916
Protein Accession#	P07766;P09693
Gene Name	CD3E
Gene Alias	FLJ18683, T3E, TCRC
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-gamma, -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 recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This 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 complex)|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

Gene Info — CD3G

Entrez GeneID

[917](#)

Protein Accession#

[P07766;P09693](#)

Gene Name

CD3G

Gene Alias

CD3-GAMMA, FLJ17620, FLJ17664, FLJ79544, FLJ94613, MGC138597, T3G

Gene Description

CD3g molecule, gamma (CD3-TCR complex)

Omim ID

[186740](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

The protein encoded by this gene is the CD3-gamma polypeptide, which together with CD3-epsilon, -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 recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. Defects in this gene are associated with T cell immunodeficiency. [provided by RefSeq]

Other Designations

CD3G antigen, gamma polypeptide|CD3g antigen, gamma polypeptide (TiT3 complex)|T-cell antigen receptor complex, gamma subunit of T3|T-cell receptor T3 gamma chain|T-cell surface glycoprotein CD3 gamma chain

Pathway

- [Hematopoietic cell lineage](#)
- [Hematopoietic cell lineage](#)
- [Primary immunodeficiency](#)
- [T cell receptor signaling pathway](#)
- [T cell receptor signaling pathway](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Celiac Disease](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Inflammation](#)