

For Research Use Only

Recombinant Human CD3 epsilon protein (rFc Tag)



Catalog Number: Eg2144

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human CD3 epsilon protein Asp23-Asp126 (Accession# P07766) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

916

Accession:

P07766

Predicted Molecular Mass:

38.0 kDa

SDS-PAGE:

38-50 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD3 is a complex of proteins that directly associates with the T cell receptor (TCR). The TCR/CD3 complex of T-lymphocytes consists of either a TCR alpha/beta or TCR gamma/delta heterodimer coexpressed at the cell surface with the invariant subunits of CD3 labeled gamma, delta, epsilon, zeta, and eta. The TCR recognizes antigens bound to major histocompatibility complex (MHC) molecules. TCR-mediated peptide-MHC recognition is transmitted to the CD3 complex, leading to the intracellular signal transduction. CD3 epsilon/CD3E is a single-pass type I membrane protein which consists of an extracellular domain of 104 amino acids, a transmembrane region, and a cytoplasmic domain of 55 amino acids. CD3 epsilon has multiple roles in T-cell development and function.

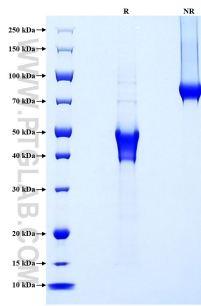
References

1. EA Padlan, et al. (1997) *Curr Biol.* 7(1):R17-20.
2. Clifford S Guy, et al. (2009) *Immunol Rev.* 232(1):7-21.
3. Vibhuti P Dave (2011) *Crit Rev Immunol.* 31(1):73-84.

Synonyms

CD3E, CD3, CD3 epsilon, CD3-epsilon, T3E

Selected Validation Data



Purity of Recombinant Human CD3 epsilon was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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