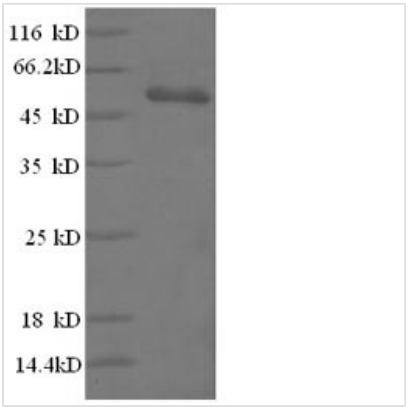
Recombinant Human T-cell surface glycoprotein CD3 epsilon chain (CD3E)

Product Code	CSB-EP004931HU(A4)
Relevance	The CD3 complex mediates signal transduction.
Abbreviation	Recombinant Human CD3E protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P07766
Alias	T-cell surface antigen T3/Leu-4 epsilon chain; CD3e
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	DGNEEMGGITQTPYKVSISGTTVILTCPQYPGSEILWQHNDKNIGGDEDDKNIG SDEDHLSLKEFSELEQSGYYVCYPRGSKPEDANFYLYLRARVCENCMEMDVM SVATIVIVDICITGGLLLLVYYWSKNRKAKAKPVTRGAGAGGRQRGQNKERPP PVPNPDYEPIRKGQRDLYSGLNQRRI
Research Area	Immunology
Source	E.coli
Target Names	CD3E
Expression Region	23-207aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	47.7kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The process of expressing the recombinant human CD3E protein in the E.coli requires the recombinant DNA gene formed by the integration of encoding gene for the 23-207aa of the human CD3E protein and N-terminal GST tag sequence, the expression vector that the recombinant DNA gene inserts into, the E.coli that provided the necessary macromolecules and components for transcription and translation of the cloned expression vector. After isolation and purification, this N-terminal GST-tagged recombinant CD3E protein was obtained. This recombinant CD3E protein is characterized by high purity (>90%, SDS-PAGE). This CD3E protein ran along the gel to the band of approximately 53 kDa molecular weight.

CD3E is a gene providing instruction of making a protein named T-cell surface glycoprotein CD3 epsilon chain (also abbreviated as CD3e) in human. CD3e is a single-pass type I membrane glycoprotein on the surface of T cells. The CD3e molecule forms a T-cell receptor-CD3 complex with CD3-γ, CD3-δ and CD3-ζ as well as T cell receptor α/β and γ/δ heterodimers. This complex plays an important role in coupling antigen recognition to multiple intracellular signal transduction pathways. The CD3e molecule plays a critical role in the development of T cells, and a defect in the CD3E gene can cause severe immunodeficiency.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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