


Human CD3E protein, Fc tag (Animal-Free)

Cat #: PRP2029

Size: 10 µg/50 µg/100 µg/1 mg

Product Information

	Product Name: Human CD3E protein, Fc tag (Animal-Free)		
REF	Catalog Number: PRP2029	LOT	Lot Number: Refer to product label
	Purity: >95% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: HEK 293 Cells
	Shipping: The product is shipped at ambient temperature.		

Background: CD3E is a one-way type I membrane glycoprotein on the surface of t cells. As a Part of the TCR-CD3 complex present on T-lymphocyte cell surface, CD3E plays an essential role in adaptive immune response. CD3E contains one Ig-like domain and one ITAM domain. CD3E together with CD3-gamma, CD3-delta and CD3-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 with a variety of intracellular signal transduction pathways. Polypeptides play an important role in T cell development. CD3E molecules play a crucial role in T cell development, and CD3e gene deficiency can lead to severe immune deficiency. The CD3E gene is also associated with a woman's susceptibility to type 1 diabetes. CD3E has been shown to interact with TOP2B, CD3EAP and NCK2. The CD3 co-receptor complex is essential for signal transduction after specific binding of the T-cell receptor (TCR).

Sequence: Amino acid sequence derived from human CD3E protein (P07766, Asp 23-Asp 126) was expressed with the Fc region of human IgG1 at the C-terminus.

Protein length: The recombinant human CD3E protein consists of 335 amino acids and predicts a molecular mass of 38 kD. The apparent molecular mass of the human CD3E is approximately 40-50 kDa in SDS-PAGE under reducing conditions due to glycosylation.

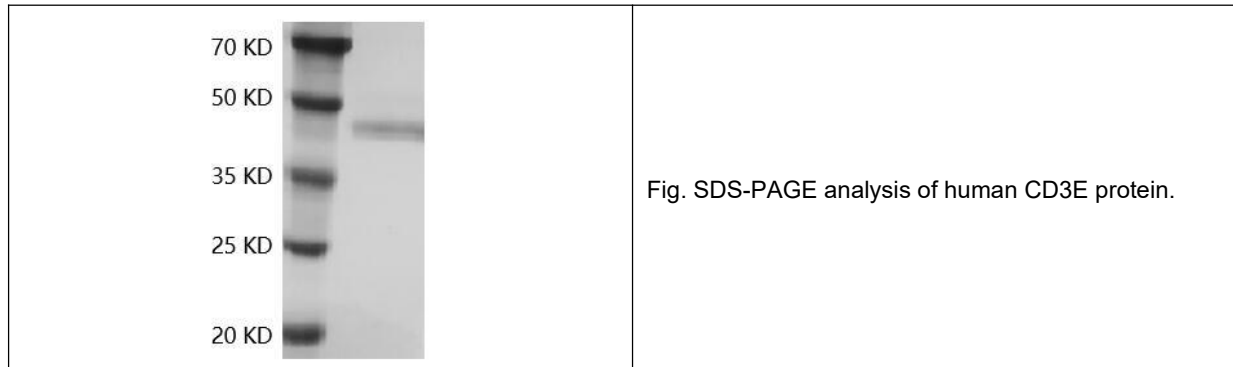
Biological Activity: Testing in progress.

Endotoxin: <0.1 EU per µg of the protein as determined by the LAL method.

Formulation: 0.22 µm filtered protein solution is in PBS.

Storage Instructions: Lyophilized human CD3E protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized human CD3E protein using the buffer we provided not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.



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