

# Recombinant Human CD3E Protein, C-IFc-tagged

## Product Information

<b>Cat</b>	IMP-1553
<b>Official Symbol</b>	CD3E
<b>Product Overview</b>	Recombinant human CD3E (NP_000724.1) (Met1-Asp126) was fused with the Fc region of Llama IgG2b at the C-terminus, constructed the plasmid 1; Recombinant human CD3G (NP_000064.1) (Met1-Ser113) was fused with the Fc region of Llama IgG2b at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the human CD3E/CD3G heterodimer was purified.
<b>Description</b>	CD3 is a member of the immunoglobulin superfamily and acts as a mediator of signal transduction. It is a multimeric protein composed of four distinct polypeptide chains ( $\epsilon$ , $\gamma$ , $\delta$ , $\zeta$ ). Each of these chains contain immunoreceptor tyrosine activation motifs (ITAMS) which are required for initiation of signaling cascades, as they recruit protein tyrosine kinases, signaling intermediates and adapter molecules. CD3 is expressed by a high-percentage of circulating peripheral T cells forming a complex with the T cell receptor (TCR).
<b>Expression System</b>	HEK293
<b>Species</b>	Human
<b>Tag</b>	C-IFc
<b>Predicted N Terminal</b>	Asp 23&Gln 23
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.
<b>Molecular Mass</b>	The recombinant human CD3E/CD3G consists of 696 (353+343) amino acids and has a calculated molecular mass of 78.4 (39.7+38.7) KDa.
<b>Protein length</b>	Met1-Asp126
<b>Endotoxin</b>	< 0.01 EU/ $\mu$ g of the protein as determined by the LAL method
<b>Purity</b>	> 90 % as determined by SDS-PAGE
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
<b>SDS-PAGE</b>	

