

**Synonym**

CD3 epsilon & CD3 gamma, CD3E & CD3G

Source

Sus scrofa CD3E&CD3G Heterodimer Protein, His Tag&Tag Free(CDG-S52W3) is expressed from human 293 cells (HEK293). It contains AA Glu 23 - Leu 116 (CD3E) & Gln 23 - Ser 116 (CD3G) (Accession # [NP_999392.1](#) (CD3E) & [NP_001008686.1](#) (CD3G)).

Predicted N-terminus: Glu 23 (CD3E) & Gln 23 (CD3G)

Molecular Characterization

CD3E (Glu 23 - Leu 116) NP_999392.1	Poly-his
CD3G (Gln 23 - Ser 116) NP_001008686.1	

Sus scrofa CD3E&CD3G Heterodimer Protein, His Tag&Tag Free is produced by co-expression of CD3E and CD3G, has a calculated MW of 16.2 kDa (CD3E) and 13.5 kDa (CD3G). Subunit CD3E is fused with a polyhistidine tag at the C-terminus, followed by an Avi tag and subunit CD3G contains no tag at the C-terminus. As a result of glycosylation, the protein migrates as 19-22 kDa under reducing (R) condition, and 35-38 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE).

EndotoxinLess than 1.0 EU per μ g by the LAL method / rFC method.**Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

FormulationLyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

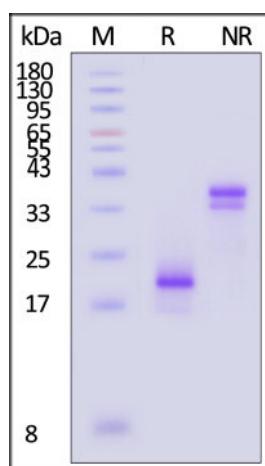
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

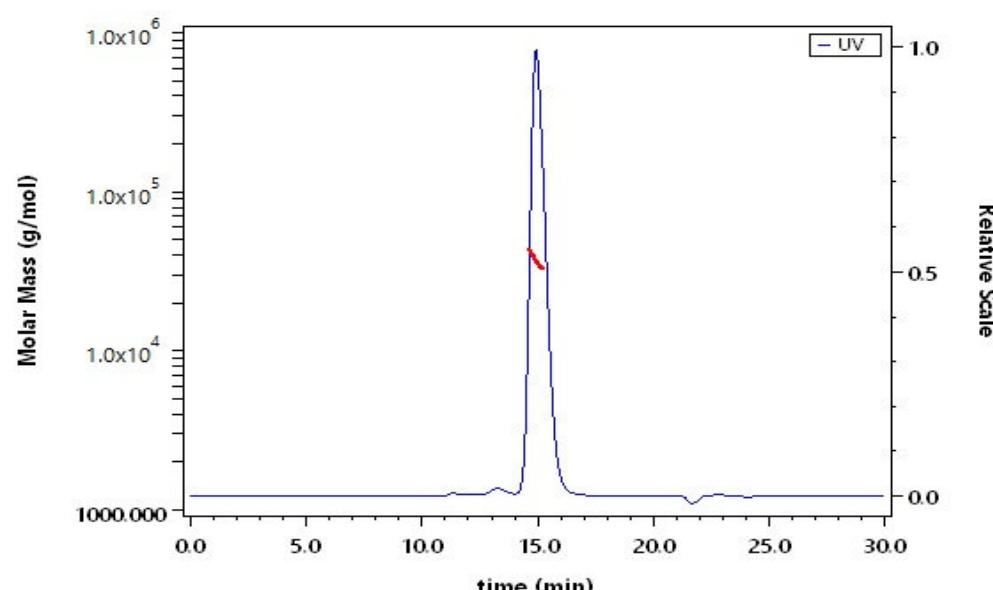
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Sus scrofa CD3E&CD3G Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

The purity of Sus scrofa CD3E&CD3G Heterodimer Protein, His Tag&Tag Free (Cat. No. CDG-S52W3) is more than 90% and the molecular weight of this protein is around 30-45 kDa verified by SEC-MALS.

[Report](#)**Discounts, Gifts,
and more!**[>> www.acrobiosystems.com](http://www.acrobiosystems.com)



Background

T-cell surface glycoprotein CD3 delta & CD3 gamma chain, also known as CD3D & CD3G or CD3D&CD3G respectively, are single-pass type I membrane proteins. CD3D, together with CD3- epsilon(CD3E) , CD3-gamma and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. T cell receptor-CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways.

Discounts, Gifts,
and more!



» www.acrobiosystems.com