

**Synonym**

TNFRSF25,DR3,APO3,DDR3,TNFRSF12,WSL,WSL1

**Source**

Human DR3 Protein, Fc Tag(DR3-H5253) is expressed from human 293 cells (HEK293). It contains AA Gln 25 - Gln 199 (Accession # [Q93038-1](#)).

**Molecular Characterization**

DR3(Gln 25 - Gln 199)	Fc(Pro 100 - Lys 330)
Q93038-1	P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 45.5 kDa. The protein migrates as 53-63 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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.*

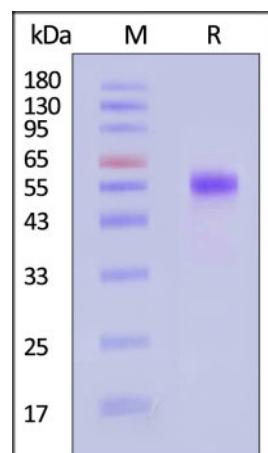
**Storage**

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

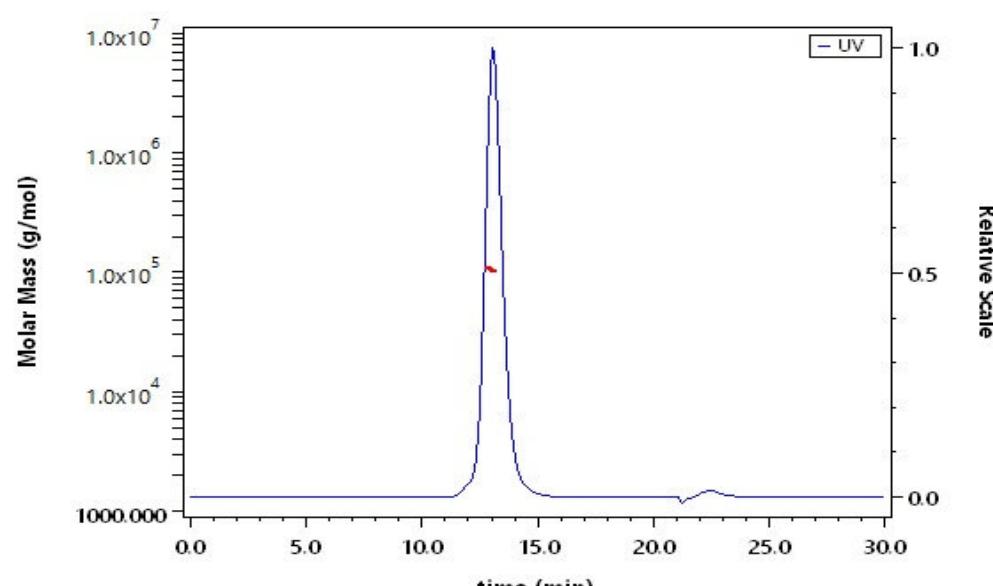
*Please avoid repeated freeze-thaw cycles.*

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**

Human DR3 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. 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 Human DR3 Protein, Fc Tag (Cat. No. DR3-H5253) is more than 95% and the molecular weight of this protein is around 95-115 kDa verified by SEC-MALS.

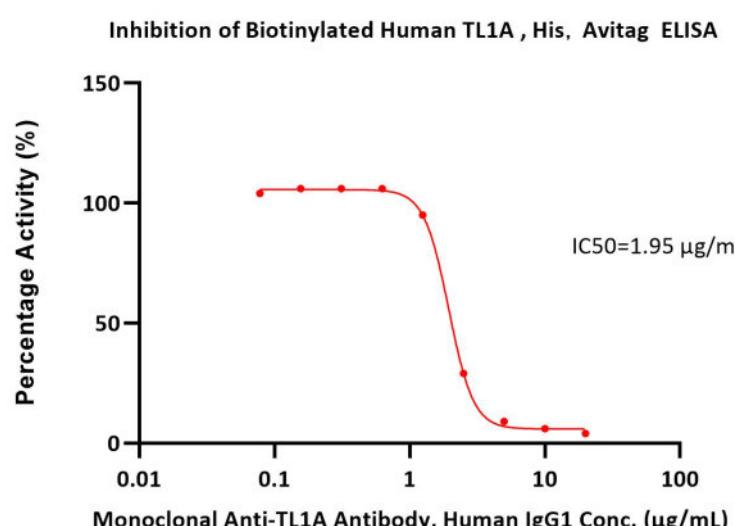
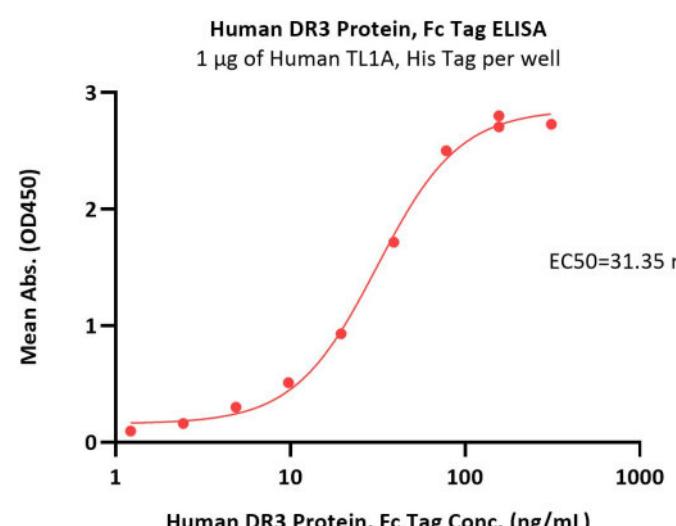
[Report](#)

**Bioactivity-ELISA**

Discounts, Gifts,  
and more!



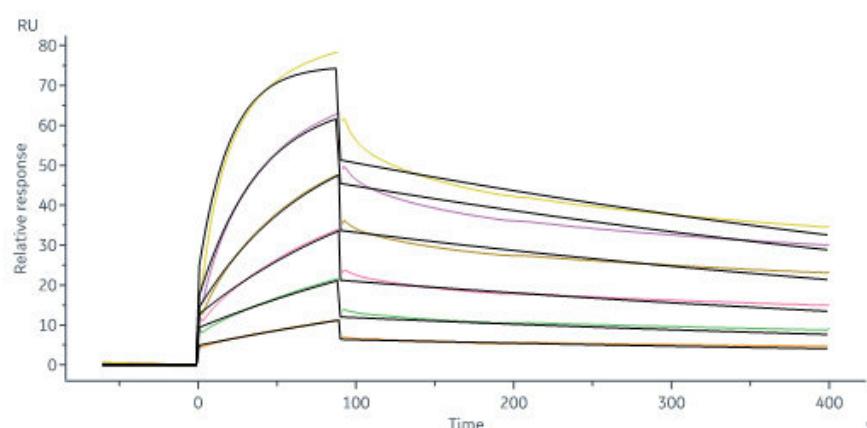
» [www.acrobiosystems.com](http://www.acrobiosystems.com)



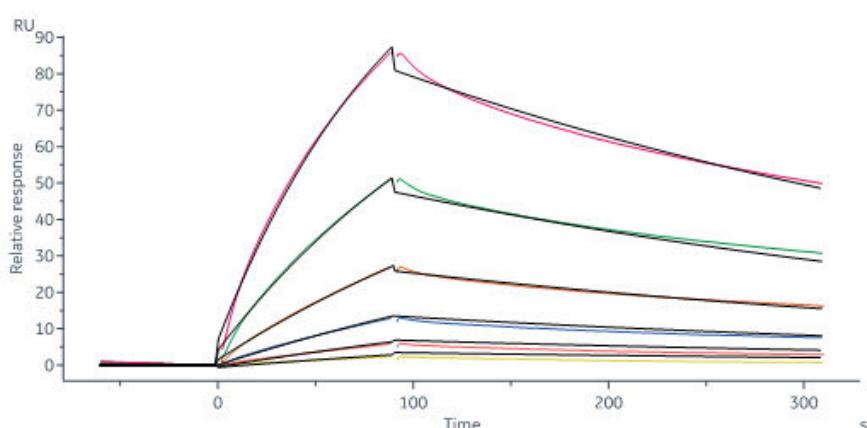
Immobilized Human TL1A, His Tag (Cat. No. TLA-H5243) at 10  $\mu$ g/mL (100  $\mu$ L/well) can bind Human DR3 Protein, Fc Tag (Cat. No. DR3-H5253) with a linear range of 1-78 ng/mL (QC tested).

Immobilized Human DR3, Fc Tag (Cat. No. DR3-H5253) at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind pre-mixed increasing concentrations of Anti-TL1A Neutralizing Antibody, Human IgG1 and 1  $\mu$ g/mL (50  $\mu$ L/well) Biotinylated Human TL1A, His Avitag (Cat. No. TLA-H52Q1) with a half maximal inhibitory concentration (IC50) of 1.95  $\mu$ g/mL (Routinely tested).

### Bioactivity-SPR



Human DR3 Protein, Fc Tag (Cat. No. DR3-H5253) captured on Protein A Chip can bind Human TL1A, His Tag (Cat. No. TLA-H5243) with an affinity constant of 7.58 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).



Human TL1A, His Tag (Cat. No. TLA-H5243) captured on CM5 chip via anti-His antibody can bind Human DR3 Protein, Fc Tag (Cat. No. DR3-H5253) with an affinity constant of 1.15  $\mu$ M as determined in a SPR assay (Biacore 8K) (Routinely tested).

### Background

Tumor necrosis factor receptor superfamily member 25 (TNFRSF25) is also known as Apo-3, Death receptor 3 (DDR3 or DR3), Apoptosis-inducing receptor AIR, Apoptosis-mediated receptor TRAMP, Lymphocyte-associated receptor of death, Apo-3, which is a member of the TNF-receptor superfamily. TNFRSF25 is a homodimer protein, which can interact strongly via the death domains with TNFRSF1 and TRADD to activate at least two distinct signaling cascades, apoptosis and NF- $\kappa$ B signaling. TNFRSF25 is receptor for TNFSF12 / APO3L / TWEAK.

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and more!

