

Synonym

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

Source

Human DR3 Protein, His Tag(TN5-H52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 25 - Gln 199 (Accession # [Q93038-1](#)).

Molecular Characterization

DR3(Gln 25 - Gln 199)
Q93038-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 20.9 kDa. The protein migrates as 30-37 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 µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm 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

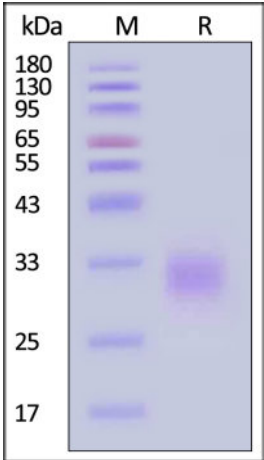
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

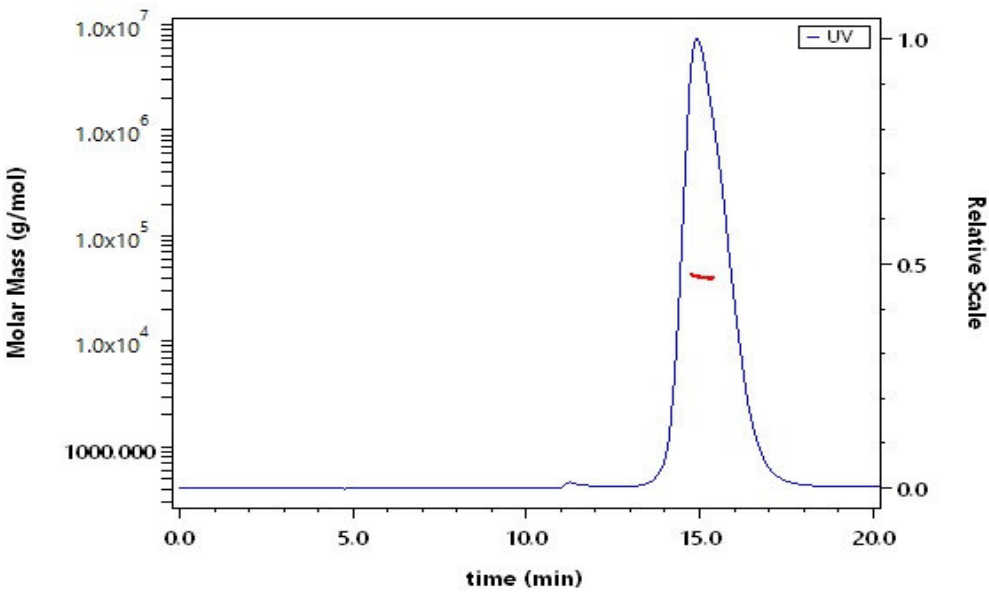
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human DR3 Protein, His 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



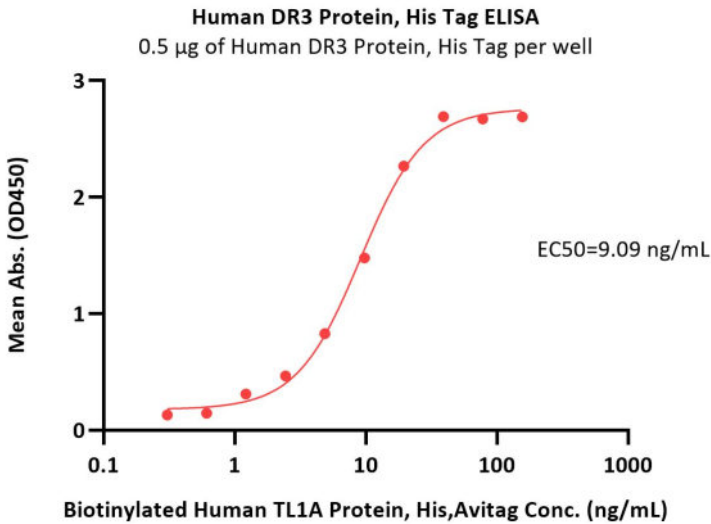
The purity of Human DR3 Protein, His Tag (Cat. No. TN5-H52H3) is more than 95% and the molecular weight of this protein is around 28-40 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA

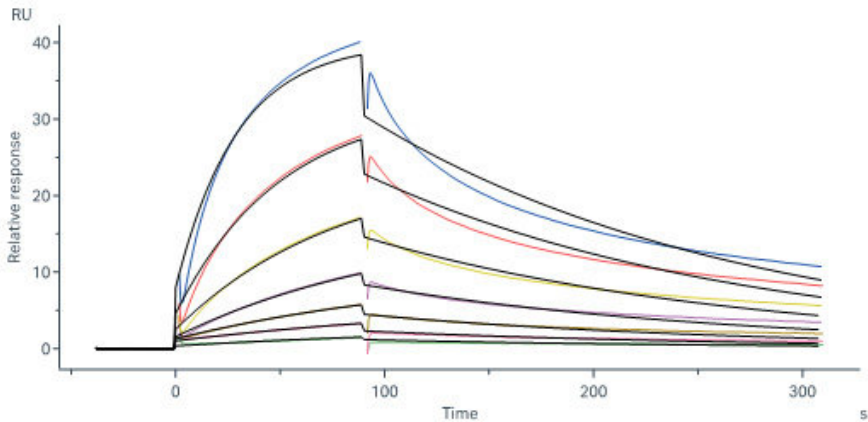
Discounts, Gifts,
and more!



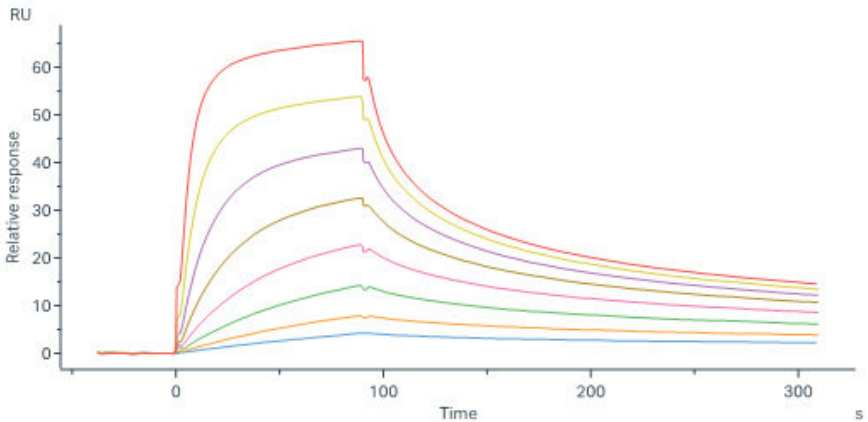


Immobilized Human DR3 Protein, His Tag (Cat. No. TN5-H52H3) at 5 µg/mL (100 µL/well) can bind Biotinylated Human TL1A Protein, His,Avitag (Cat. No. TLA-H52Q1) with a linear range of 0.3-20 ng/mL (QC tested).

Bioactivity-SPR

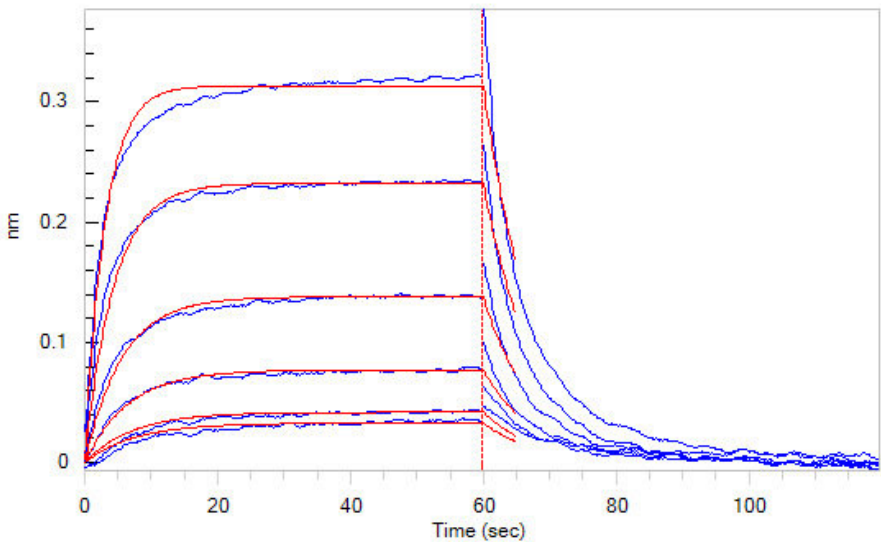


Human DR3 Protein, His Tag (Cat. No. TN5-H52H3) immobilized on CM5 Chip can bind Biotinylated Human TL1A Protein, His,Avitag (Cat. No. TLA-H52Q1) with an affinity constant of 97.9 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).



Human DR3 Protein, His Tag (Cat. No. TN5-H52H3) immobilized on CM5 Chip can bind Human TL1A, His Tag (Cat. No. TLA-H5243) with an affinity constant of 45.8 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Bioactivity-BLI



Loaded Biotinylated Human TL1A Protein, His,Avitag (Cat. No. TLA-H52Q1) on SA Biosensor, can bind Human DR3 Protein, His Tag (Cat. No. TN5-





H52H3) with an affinity constant of 2.8 μ M as determined in BLI assay (ForteBio Octet Red96e) (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-mediating 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.

