

# Recombinant Human DR4 protein (rFc Tag) (HPLC verified)

Catalog Number: Eg4600

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE  
>90 %, SEC-HPLC

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE  
>90 %, SEC-HPLC

**Endotoxin Level:**  
<0.1 EU/ µg protein, LAL method

**Source:**  
HEK293-derived Human DR4 protein Ala109-Asn239 (Accession# O00220) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
8797

**Accession:**  
O00220

**Predicted Molecular Mass:**  
40.6 kDa

**SDS-PAGE:**  
40-50 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

DR4, also known as tumor necrosis factor (TNF)-related apoptosis-inducing ligand (TRAIL), is a member of the TNF superfamily. TRAIL activates apoptosis through the death receptors DR4 (also known as TRAILR1 and TNFRSF10A) and DR5 (also known as TRAILR2, KILLER and TNFRSF10B). DR4 and DR5 are single-pass type I membrane proteins that contain intracellular death domains (DD) and upon activation mediate apoptotic signals. Binding of TRAIL to DR4 or DR5 results in receptor oligomerization and recruitment of FAS-associated protein with death domain (FADD) and caspase 8 to form a functional death-inducing signalling complex (DISC). Upon DISC formation, caspase 8 is cleaved and activated, which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. DR4 or DR5 promotes the activation of NF-kappa-B and play an important role in inflammation.

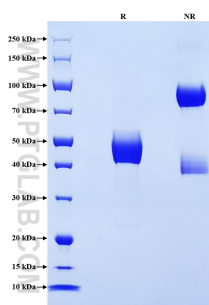
## References

1. Ozawa F. et al. (2001). Cancer Lett. 163(1):71-81.
2. Johnstone RW. et al. (2008). Nat Rev Cancer. 8(10):782-798.
3. Chaudhary PM. et al. (1997). Immunity. 7(6):821-830.
4. Tang W. et al. (2009). Cell Res. 19(6):758-767.

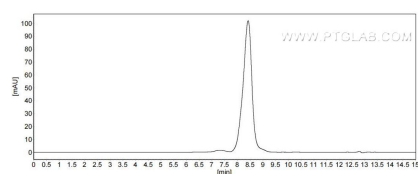
## Synonyms

APO2, CD261, Death receptor 4, TNF-related apoptosis-inducing ligand receptor 1, TNFRSF10A

## Selected Validation Data



Purity of Recombinant Human DR4 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human DR4 was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

T: 027-87531629

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.