

TRAIL R4/TNFRSF10D Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	DCR2;TNFRSF10D;RSF10D;CD264;TRUNDD;TRAILR4
Protein Construction:	Ala56-His211
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9UBN6
Molecular Weight:	19.4 kDa (predicted). Due to glycosylation, the protein migrates to 38-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Human TRAIL, No Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human TRAIL R4, His Tag with the EC50 of 76.1ng/ml determined by ELISA (QC Test).2. Human TRAIL R4, His Tag immobilized on CM5 Chip can bind Human TRAIL, No Tag with an affinity constant of 0.13 nM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by SEC-HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
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Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

TNF-related apoptosis inducing ligand (TRAIL) is a potential antitumor protein known for its ability to selectively eliminate various types of tumor cells without exerting toxic effects in normal cells and tissues. TRAIL-R2/DR5 as well as TRAIL-R3/DcR1 and TRAIL-R4/DcR2 were significantly higher expressed in advanced tumour stages.

Reference

Werner TA, et al. IAPs cause resistance to TRAIL-dependent apoptosis in follicular thyroid cancer. *Endocr Relat Cancer*. 2018 Mar;25(3):295-308. doi: 10.1530/ERC-17-0479. Epub 2018 Jan 9. PMID: 2931748

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