

TRAIL R2/DR5/TNFRSF10B Protein, Human, Recombinant (hFc)

General Information

Synonyms:	TRAIL R2;TNFRSF10B;TRICK2;KILLER;DR5;TRAIL receptor 2;Fas-like protein;TRICKB;ZTNFR9;DR5TRICK2B;CD262;TRICK2A;KILLER/DR5;TRAILR2
Protein Construction:	Ile56-Glu182
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O14763-1
Molecular Weight:	41.1 kDa (predicted). Due to glycosylation, the protein migrates to 50-55 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human Trail, No Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human TRAIL R2, hFc Tag with the EC50 of 4.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by 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 50 mM Tris, 100 mM NaCl (pH 7.5). 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.

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

DR5, also called TRAIL R2, TRICK 2, TNFRSF10B, and MK is a type 1 TNF R superfamily, membrane protein which is a receptor for TRAIL (APO2 ligand). DR5 is a receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs

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caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis.

Reference

Zheng D, et al. Is death receptor 4 or 5 a good target for cancer antibody therapy? [J]. New Biotechnology, 2012, 29: S114.

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