

TNFSF12/TWEAK Protein, Human, Recombinant (hFc)

General Information

Synonyms:	TWEAK;APO3L;APO3 ligand;MGC129581;UNQ181/PRO207;DR3LG
Protein Construction:	Ser43-His249
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O43508-1
Molecular Weight:	49.62 kDa (predicted). Due to enzyme lysis and glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Human TNFSF12, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-TNFSF12 Antibody, hFc Tag with the EC50 of 0.11µg/ml determined by ELISA (QC Test).2. Human TNFSF12, hFc Tag immobilized on CM5 Chip can bind Human TNFRSF12A, hFc Tag with an affinity constant of 0.24 nM as determined in SPR assay.
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 PBS, 200 mM L-arginine (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.

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

A DRUG SCREENING EXPERT

Tumor necrosis factor-like weak inducer of apoptosis (TWEAK) is a well known multifunctional cytokine extensively distributed in cell types and tissues. Accumulating evidence has shown that TWEAK binding to the receptor factor-inducible 14 (Fn14) participates in diverse pathologic processes including cell proliferation and death, angiogenesis, carcinogenesis and inflammation.

Reference

Wang M, et al. TWEAK/Fn14 axis in respiratory diseases. Clin Chim Acta. 2020 Oct;509:139-148. doi: 10.1016/j.cca.2020.06.007. Epub 2020 Jun 8. PMID: 32526219.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481