

Human TNFSF12/TWEAK Protein

Cat. No. TNF-HM212

Description

Source	Recombinant Human TNFSF12/TWEAK Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ser43-His249.
Accession	O43508-1
Molecular Weight	The protein has a predicted MW of 49.62 kDa. Due to enzyme lysis and glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

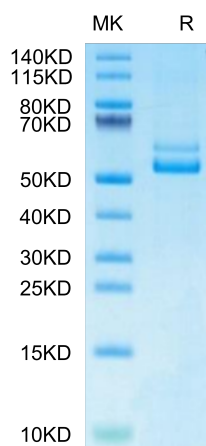
Formulation	Lyophilized from 0.22µm filtered solution in PBS, 200mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

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.

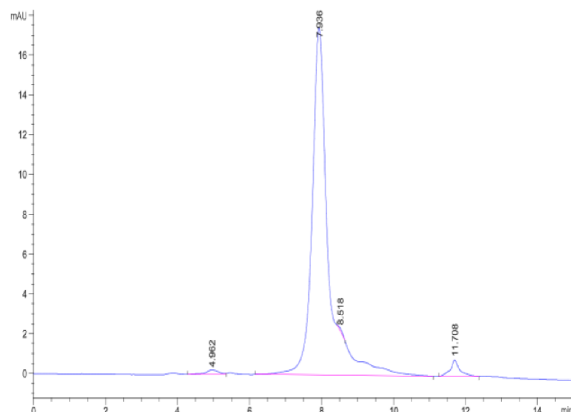
Assay Data

Bis-Tris PAGE



Human TNFSF12 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



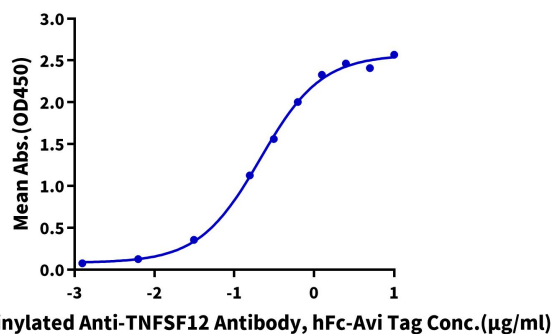
The purity of Human TNFSF12 Protein is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

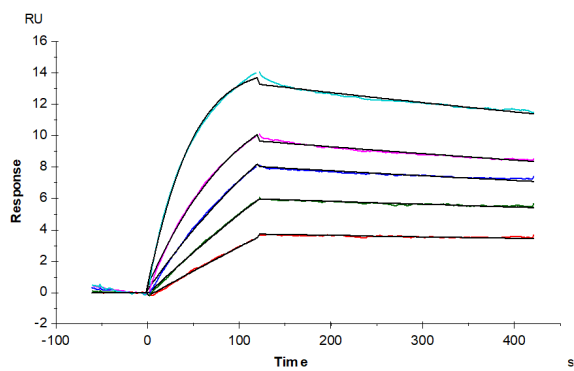
Human TNFSF12, hFc Tag ELISA

0.5µg Human TNFSF12, hFc Tag Per Well



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 0.21µg/ml determined by ELISA (QC Test).

SPR Data



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 (Biacore T200).