

# Human TNFSF12/TWEAK Protein

Cat. No. TNF-HM212

## Description

<b>Source</b>	Recombinant Human TNFSF12/TWEAK Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ser43-His249.
<b>Accession</b>	O43508-1
<b>Molecular Weight</b>	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.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

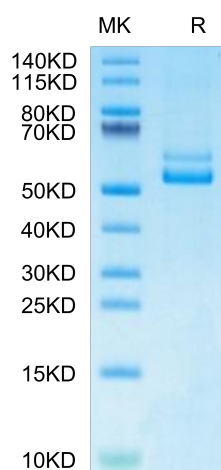
<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS, 200mM L-arginine (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

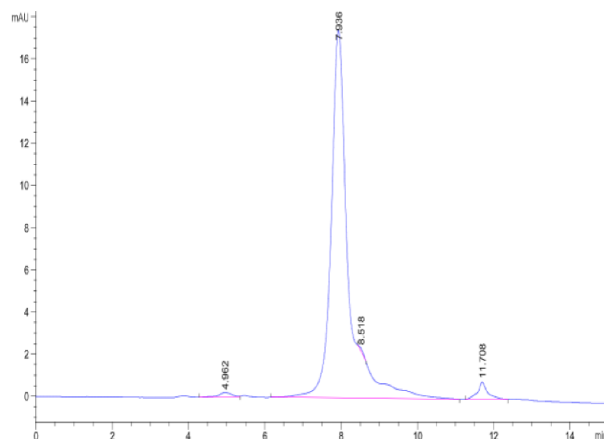
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



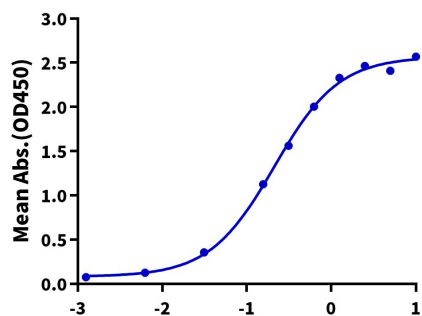
The purity of Human TNFSF12 Protein is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human TNFSF12, hFc Tag ELISA**

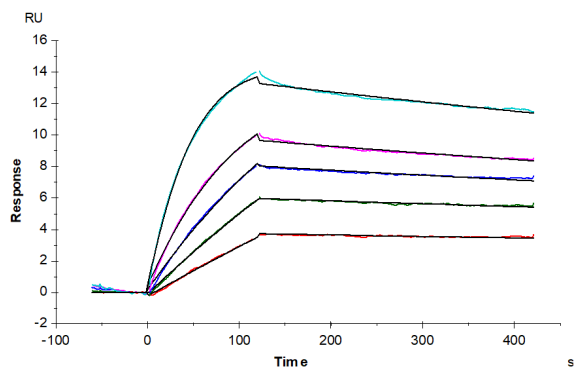
0.5µg Human TNFSF12, hFc Tag Per Well



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).

Log Biotinylated Anti-TNFSF12 Antibody, hFc-Avi Tag Conc.(µg/ml)

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).