



Synonym

TNFSF12

Source

Human TWEAK Protein, Fc Tag(TWK-H5263) is expressed from human 293 cells (HEK293). It contains AA Ser 94 - His 249 (Accession # [O43508-1](#)).

Predicted N-terminus: Pro

Molecular Characterization

Fc(Pro 100 - Lys 330) P01857	TWEAK(Ser 94 - His 249) O43508-1
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This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 43.6 kDa. The protein migrates as 33 kDa and 48-53 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

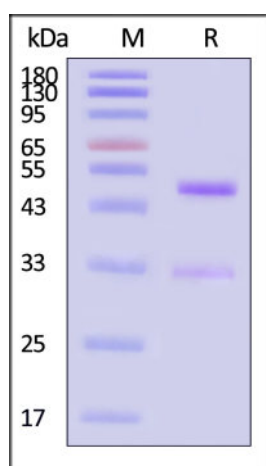
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



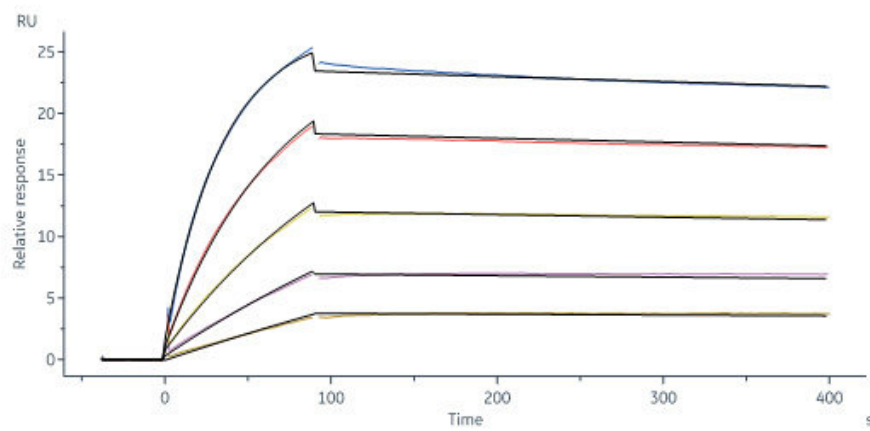
Human TWEAK Protein, Fc Tag on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-SPR

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Human TWEAK Protein, Fc Tag (Cat. No. TWK-H5263) immobilized on CM5 Chip can bind Human TWEAK R, Fc Tag (Cat. No. TNA-H526a) with an affinity constant of 42.8 pM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

TWEAK (tumor necrosis factor-like weak inducer of apoptosis) is a member of the TNF superfamily that controls a multitude of cellular events including proliferation, migration, differentiation, apoptosis, angiogenesis, and inflammation. TWEAK exists in both membrane-bound and secreted forms, and can induce cell apoptosis via multiple pathways of cell death in a cell type-specific manner. It has also been found to promote the proliferation and migration of endothelial cells, and thus acts as a regulator of angiogenesis.

Clinical and Translational Updates

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