

## TWEAK/TNFSF12 Protein, Human (HEK293, hFc)

<b>Cat. No.:</b>	HY-P701045
<b>Synonyms:</b>	APO3 ligand; APO3L; DR3LG; UNQ181/PRO207; TWEAK; MGC129581
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	O43508-1 (S43-H249)
<b>Gene ID:</b>	8742
<b>Molecular Weight:</b>	50-60 kDa

### PROPERTIES

<b>Biological Activity</b>	Immobilized Human TNFSF12, hFc Tag at 5 µg/mL (100 µl/well) on the plate. Dose response curve for Biotinylated Anti-TNFSF12 Antibody, hFc Tag with the EC <sub>50</sub> of ≤0.11 µg/mL determined by ELISA.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS, 200mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The TWEAK/TNFSF12 Protein exhibits binding affinity for FN14 and potentially TNFRSF12/APO3, functioning as a weak inducer of apoptosis in certain cell types. Additionally, TWEAK/TNFSF12 is involved in NF-kappa-B activation, thereby mediating multiple cellular responses, including angiogenesis and the proliferation of endothelial cells. Its role extends to the induction of inflammatory cytokines and the promotion of IL8 secretion. As a homotrimer, TWEAK/TNFSF12 likely engages in intricate molecular interactions to orchestrate its diverse functions. Furthermore, it interacts with the angiogenic factor AGGF1/VG5Q, further underscoring its involvement in angiogenesis and its potential as a regulator of cellular processes with implications for inflammation and vascular homeostasis.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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