

**Animal-Free Recombinant Human TWEAK**  
**Catalog # PBG10549****Specification**

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**Animal-Free Recombinant Human TWEAK - Product Information****Animal-Free Recombinant Human TWEAK - Additional Information****Description**

TWEAK belongs to the TNF family of ligands and signals through TWEAKR also known as TNFRSF12A. TWEAK is expressed in a variety of tissues, including the adult heart, pancreas, skeletal muscle, small intestine, spleen and peripheral blood lymphocytes. TWEAK has the ability to induce NFkB activation and chemokine secretion, and to exert an apoptotic activity in certain cells, such as HT-29 human adenocarcinoma cells when cultured in the presence of IFN-γ. TWEAK also promotes proliferation and migration of endothelial cells. Recombinant human TWEAK is a soluble 17.0 kDa polypeptide (154 amino acid residues) comprising the TNF homologous region of TWEAK and is generated by proteolytic processing of the full length membrane anchored TWEAK protein.

**BiologicalActivity**

**Assay #1:** The **ED<sub>50</sub>** as determined by the dose-dependent stimulation of IL-8 production by Human PBMC is less than 10 ng/ml.   
**Assay #2:** TWEAK weakly induces the death of HT29 cells when cultured in the presence of IFN-γ. The **ED<sub>50</sub>** for this effect is between 30-45 ng/ml.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Animal-Free Recombinant Human TWEAK is for research use only and not for use in diagnostic or therapeutic procedures.

**Animal-Free Recombinant Human TWEAK - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Animal-Free Recombinant Human TWEAK - Images**