

Rev03  
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**DATASHEET**

# TWEAK, Human

Cat. No.: Z03133

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<b>TWEAK (Arg99-His249) Accession # Q4ACW9</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 1.0 ng/ml, measured in a cell cytotoxicity assay using HTB-38 (HT-29) cells.
<b>Expression System</b>	CHO
<b>Apparent Molecular Weight</b>	20-22 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Background

**Target Background :** TWEAK, short for TNF-related weak inducer of apoptosis, is also known as TNFSF12 and DR3LG. It is a type II transmembrane protein belonging to the TNF superfamily. It is expressed widely in many tissues, such as the heart, skeletal muscle, spleen and peripheral blood. Binding of TWEAK to its receptor TWEAKR induces NF-κB activation, chemokine secretion and apoptosis in certain cell types. TWEAK has also been reported to promote endothelial cell proliferation and migration, thus serving as a regulator of angiogenesis.

**Synonyms :** TNF-related weak inducer of apoptosis; TNFSF12; DR3LG; Apo3-Ligand

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

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