Rev06
Update: Aug,20,2025

DATASHEET

TWEAK, Human

Cat. No.: Z03133

Product Introduction

Species	Human
Protein Construction	TWEAK (Arg99-His249) Accession # Q4ACW9
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED_{50} < 1.0 ng/ml, measured in a cell cytotoxicity assay using HTB-38 (HT-29) cells.
Expression System	CHO
Apparent Molecular Weight	20-22 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	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_2O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 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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