

TWEAK, Human

Cat. No.: Z03133-1

Size: 1.0 mg

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

Description:

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- κ B 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.

Amino Acid Sequence:

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00001 RKTRARRAIA AHYEVHPRPG QDGAQAGVDG TVSGWEEARI
00041 NSSSPLRYNR QIGEFIVTRA GLYYLYCQVH FDEGKAVYLK
00081 LDLLVDGVL A LRCLEEF SAT AASSLGPQLR LCQVSGLLAL
00121 RPSGSSLRI RT LPWAHLKAAP FLTYFGLFQV H
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Source: CHO

Species: Human

Biological Activity: ED₅₀ < 1 ng/ml, measured in a cell cytotoxicity assay using HTB-38 (HT-29) cells.

Molecular Weight: 20-22 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Purity: > 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: < 0.2 EU/ μ g, determined by LAL method.

Storage: Lyophilized recombinant Human TWEAK remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human TWEAK should be stable up to 1 week at 4°C or up to 2 months at -20°C.