

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant TWEAK, Human

Catalog Number: BK0290-1mg

Source: CHO

Quantity: 1mg

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.

Molecular Weight:

20-22 kDa, observed by reducing SDS-PAGE.

Purity:

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

Biological Activity:

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

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

RKTRAR-
RAIAAHYEVHPRPGQDGAQAGVDGTVSG-
WEEARINSSSPLRYN-
RQIGEFIVTRAGLYYLYCQVHF-
DEGKAVYKLDLLVDGVLALRCLEEFSAATAAS-
SLGPQLRLCQVSGLLALRPGSSLRIRTL-
WAHLKAAPFLTYFGLFQVH

Endotoxin:

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

Reconstitution:

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

Storage:

Lyophilized recombinant Human TWEAK remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, Human TWEAK should be stable up to 1 week at 4 $^{\circ}$ C or up to 2 months at -20 $^{\circ}$ C.

Usage:

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