

PRODUCT DATA SHEET

Product: TWEAK, soluble (human recombinant)

Cat. No.: BC-082 (10 µg)

Synonyms:

Apo-3L; TNFSF 12

Source/Host:

Produced in *E. coli*. The extracellular domain of human TWEAK (aa 106-249) is fused at the N-terminus to a linker peptide (11 aa) and a FLAG[®]-tag.

Format:

Lyophilized. Contains PBS.

Molecular Weight:

~18-20 kDa as determined by SDS-PAGE.

Purity:

≥95% as determined by SDS-PAGE.

Endotoxin: <0.1 EU/µg of purified protein (LAL test).

Biological Activity:

Kills TWEAK sensitive cells. Has a pro-apoptotic effect on several target cell lines and induces angiogenesis and proliferation in endothelial cells. Binds to human and mouse Fn14(TWEAK-R).

Reconstitution:

Reconstitute in 100 µL sterile water for a 0.1 mg/mL solution. Further dilutions should be made with medium containing 5% fetal calf serum.

Storage and Stability:

Store lyophilized protein at at -20°C. After reconstitution, aliquot and store at -20°C.

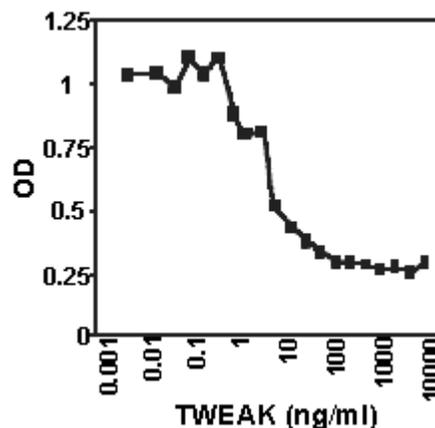


Figure: Apoptosis of TWEAK sensitive cells. Recombinant, soluble human TWEAK (BC-082) exerts its full biological activity in a concentration range of 50-500 ng/mL on Kym-1 cells.

Method: Kym-1 cells (20,000 cells in 50 µL RPMI medium containing 10% fetal calf serum) were incubated with the indicated concentrations of TWEAK (BC-082) for 24 hours at 37°C in a 96 well plate. Concentrations of TWEAK required to kill target cells may vary depending on cell type studied. Cell viability was determined using a PMS/MTS-based cell proliferation assay kit.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.

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