

## Mouse recombinant TWEAK (TNF-related weak inducer of apoptosis) protein, AF

Catalog Number: PROTO54907

### Overview

Product Name	Mouse recombinant TWEAK (TNF-related weak inducer of apoptosis) protein, AF
Description	TNF-related Weak Inducer of Apoptosis (TWEAK) is a type II membrane protein of the tumor necrosis factor (TNF) family members, high levels expression in mouse peritoneal macrophages. The murine and human TWEAK homologs are very close related (~93% sequence identity in the receptor-binding domain). TWEAK is a 17.3 kDa protein containing 129 residues. TWEAK induce apoptosis through cognate receptor Fn14 activate caspase-8 and caspase-3, in HSC3 cells KATO-III gastric adenocarcinoma cells and IFN-gamma-treated HT-29. TWEAK stimulate inflammatory cytokines in HT-29, A375 cells, WI-38 fibroblast and astrocytes.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 18.14 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to induce proliferation in HUVEC cells. The ED<sub>50</sub> for this effect is <0.2 ug/mL.

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### **Amino Acid Sequence**

MSAPKGRKARPRRAIAAHYEVHPRPGDGAQAGVDGTVSGWEETKINSSPLRYDRQIGFTVIRAGLYLYCQVHFDEGKAVYLKDLLVNGVLALRC  
LEEFSAATAASSPGPQLRLCQVSGLLPLRPGSSLRIRTLPPWAHLKAAPFLTYFGLFQVH with polyhistidine tag at the C-terminus.

### **Reconstitution**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex!  
Vigorous shaking may impair the biological activity of the protein.

## Usage

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