

## Datasheet for ABIN2666449 TWEAK Protein (AA 97-249)



Go to Product page

Overview

Quantity:	25 µg
Target:	TWEAK (TNFSF12)
Protein Characteristics:	AA 97-249
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Biochemical Assay (BCA)
Product Details	
Durity:	> 08 % as determined by Coomassie stained SDS-DAGE
Fullty.	> 50 %, as determined by Coornassie stained 5DS 1 AGE.
Endotoxin Level:	Less than 0.1 ng per $\mu$ g of protein.
Endotoxin Level:	Less than 0.1 ng per µg of protein.
Endotoxin Level: Target Details	Less than 0.1 ng per µg of protein.
Endotoxin Level: Target Details Target:	<ul> <li>2 90 %, as determined by Coornassie stained SDS FAGL.</li> <li>Less than 0.1 ng per μg of protein.</li> <li>TWEAK (TNFSF12)</li> </ul>
Endotoxin Level: Target Details Target: Alternative Name:	<ul> <li>2 90 %, as determined by Coornassie stained SDS FAGE.</li> <li>Less than 0.1 ng per μg of protein.</li> <li>TWEAK (TNFSF12)</li> <li>TWEAK (TNFSF12 Products)</li> </ul>
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Endotoxin Level: Target Details Target: Alternative Name: Background:	<ul> <li>Y 90 %, as determined by Coornassie stained SDS FAGE.</li> <li>Less than 0.1 ng per µg of protein.</li> <li>TWEAK (TNFSF12)</li> <li>TWEAK (TNFSF12 Products)</li> <li>TWEAK (TNFSF12) is a "TNF-like weak inducer" of apoptosis through a non-death domain- dependent mechanism. TWEAK is a type II membrane protein which exhibits a single internal</li> </ul>
Endotoxin Level: Target Details Target: Alternative Name: Background:	<ul> <li>2 90 %, as determined by coornassie stailed 3D3 FAGL.</li> <li>Less than 0.1 ng per μg of protein.</li> <li>TWEAK (TNFSF12)</li> <li>TWEAK (TNFSF12 Products)</li> <li>TWEAK (TNFSF12) is a "TNF-like weak inducer" of apoptosis through a non-death domain- dependent mechanism. TWEAK is a type II membrane protein which exhibits a single internal bydraphabia domain of 27 amino acids in the N terminol region. TWEAK is protected ticely.</li> </ul>
Endotoxin Level: Target Details Target: Alternative Name: Background:	2 90 %, as determined by Coornassie stanled SDSTAGE.         Less than 0.1 ng per μg of protein.         TWEAK (TNFSF12)         TWEAK (TNFSF12 Products)         TWEAK (TNFSF12) is a "TNF-like weak inducer" of apoptosis through a non-death domain- dependent mechanism. TWEAK is a type II membrane protein which exhibits a single internal hydrophobic domain of 27 amino acids in the N-terminal region. TWEAK is proteolytically
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Endotoxin Level: Target Details Target: Alternative Name: Background:	<ul> <li>Job 78, as determined by coornassie standed SDSTAGE.</li> <li>Less than 0.1 ng per µg of protein.</li> <li>TWEAK (TNFSF12)</li> <li>TWEAK (TNFSF12 Products)</li> <li>TWEAK (TNFSF12) is a "TNF-like weak inducer" of apoptosis through a non-death domain-dependent mechanism. TWEAK is a type II membrane protein which exhibits a single internal hydrophobic domain of 27 amino acids in the N-terminal region. TWEAK is proteolytically cleaved to produce a soluble cytokine that signals as a trimerized molecule. Fibroblast growth factor-inducible 14 (Fn14)/TWEAKR has been described as a receptor for TWEAK, and it is</li> </ul>

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	associated with proliferation of endothelial cells and angiogenesis. However, TWEAK mediates
	signal transduction and linear differentiation of monocyte/macrophage cells lacking
	Fn14/TWEAKR, suggesting that such cells contain an alternative TWEAK receptor. Elevated
	levels of TWEAK and/or Fn14 have been found to be associated with the pathogenesis of
	rheumatoid arthritis, skeletal muscle wasting, systemic lupus erythematosus, multiple sclerosis,
	stroke, neuroinflammation and neurodegeneration, and several types of cancer. The
	pathological functions of TWEAK are primarily attributed to its ability to induce the expression
	of several proinflammatory cytokines, chemokines, cell adhesion molecules, and matrix-
	degrading enzymes mainly through the activation of NF- $\kappa$ B, a major proinflammatory
	transcription factor. It has been described that CD163 (a scavenger receptor) might be acting
	as a receptor decoy for the ligand TWEAK.
Molecular Weight:	The 154 amino acid N-terminal methionylated recombinant protein has a predicted molecular
	mass of 17 kDa.
Pathways:	Apoptosis
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: ED50 < 10 ng/ml, corresponding to a specific activity of > 1 x 107 units/mg,
	as determined by the dose dependent stimulation of production of IL-8 by human PBMC.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	For maximum results, quick spin vial prior to opening. Reconstitute in 10 mM sodium
	phosphate, pH 7.5 to a concentration of 1.0 mg/mL. Do not vortex. It is recommended to
	further dilute in a buffer containing a carrier protein such as 0.1 % BSA and store working
	aliquots at -20 °C to -80 °C.
Buffer:	Lyophilized
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored at -20°C or -70°C.

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