

## TWEAK/TNFSF12 Protein, Human (CHO)

Cat. No.:	HY-P7309
Synonyms:	rHuTWEAK; TNF-related weak inducer of apoptosis; TNFSF12; DR3LG; APO3L
Species:	Human
Source:	CHO
Accession:	O43508 (R99-H249)
Gene ID:	8742
Molecular Weight:	20-22 kDa

### PROPERTIES

AA Sequence	<pre> R K T R A R R A I A   A H Y E V H P R P G   Q D G A Q A G V D G   T V S G W E E A R I N S S S P L R Y N R   Q I G E F I V T R A   G L Y Y L Y C Q V H   F D E G K A V Y L K L D L L V D G V L A   L R C L E E F S A T   A A S S L G P Q L R   L C Q V S G L L A L R P G S S L R I R T   L P W A H L K A A P   F L T Y F G L F Q V   H           </pre>
Biological Activity	The ED <sub>50</sub> is <1 ng/mL as measured by HTB-38 (HT-29) cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>TWEAK/TNFSF12 is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. TWEAK is a ligand for the FN14/TWEAKR receptor. TWEAK has overlapping signaling functions with TNF, but displays a much wider tissue distribution. Leukocytes are the main source of TWEAK including human resting and activated monocytes, dendritic cells and natural killer cells<sup>[1]</sup>. TWEAK can induce apoptosis via multiple pathways of cell death in a cell type-specific manner. This cytokine is also found to promote proliferation and migration of endothelial cells, and thus acts as a regulator of angiogenesis<sup>[2]</sup>.</p>
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## REFERENCES

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[1]. Maecker H, et al. TWEAK attenuates the transition from innate to adaptive immunity. Cell. 2005 Dec 2;123(5):931-44.

[2]. TNFSF12 TNF superfamily member 12 [Homo sapiens (human)]

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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