

Product Data Sheet

TNF-alpha/TNFSF2 Protein, Equine

Cat. No.:	HY-P79099
Synonyms:	DIF; TNFalpha; TNFA; TNFSF2; cachexin; cachectin; TNF α
Species:	Equine
Source:	E. coli
Accession:	NP_001075288 (L78-L234)
Gene ID:	100033834
Molecular Weight:	Approximately 19.36 kDa

PROPERTIES
AA Sequence
Biological Activity
Appearance
Formulation
Endotoxin Level
Reconsititution
Storage & Stability
Shipping

DESCRIPTION

Background

TNF-alpha/TNFSF2 protein, a cytokine, binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR, predominantly secreted by macrophages and exhibiting diverse biological functions. It possesses the capability to induce cell death in specific tumor cell lines, serving as a potent pyrogen that can cause fever through direct action or by stimulating interleukin-1 secretion, and is implicated in the induction of cachexia. Under certain conditions, TNF-alpha/TNFSF2 can play a role in both stimulating cell proliferation and inducing cell differentiation. It also contributes to insulin resistance in adipocytes by

inhibiting insulin-induced IRS1 tyrosine phosphorylation and glucose uptake, with additional effects on GKAP42 protein degradation. Furthermore, TNF-alpha/TNFSF2 participates in angiogenesis by synergistically inducing VEGF production with IL1B and IL6, and promotes osteoclastogenesis, thereby mediating bone resorption. The intracellular domain (ICD) form of TNF-alpha induces IL12 production in dendritic cells, further highlighting its multifaceted impact on diverse cellular processes.

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

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