

Product Data Sheet

TNF-alpha/TNFSF2 Protein, Mouse (His-SUMO)

Cat. No.: HY-P700510

Synonyms: rHuTNF-α, His; Cachectin; TNFSF2

Species: Mouse
Source: E. coli

Accession: P06804 (G57-L235)

Gene ID: 21926 Molecular Weight: 35.7 kDa

PROPERTIES

AA Sequence	GPQRDEKFPN GLPLISSMAQ TLTLRSSSQN SSDKPVAHVVANHQVEEQLE WLSQRANALL ANGMDLKDNQ LVVPADGLYLVYSQVLFKGQ GCPDYVLLTH TVSRFAISYQ EKVNLLSAVKSPCPKDTPEG AELKPWYEPI YLGGVFQLEK GDQLSAEVNLPKYLDFAESG QVYFGVIAL
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). 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

TNF-alpha/TNFSF2 Protein is a cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. Secreted mainly by macrophages, it can induce cell death in certain tumor cell lines. Additionally, it acts as a potent pyrogen, causing fever through direct action or by stimulating interleukin-1 secretion and is implicated in the induction of cachexia. Under specific conditions, it can stimulate cell proliferation and promote cell differentiation. In adipocytes, it induces insulin resistance by inhibiting insulin-induced IRS1 tyrosine phosphorylation and glucose uptake, while also leading to GKAP42 protein degradation, contributing to TNF-induced insulin resistance. TNF-alpha/TNFSF2 Protein plays a role in angiogenesis by synergistically inducing VEGF production with IL1B and IL6. Furthermore, it facilitates osteoclastogenesis, thereby mediating bone resorption. Finally, the TNF intracellular domain (ICD) form of TNF-alpha/TNFSF2 Protein stimulates IL12

production in dendritic cells.

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

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