

Recombinant Mouse Tumor Necrosis Factor-alpha/TNFSF2 (Mouse TNF- α /TNFSF2)

Product Information

Product Name	Cat#	Size
Recombinant Mouse Tumor Necrosis Factor-alpha/TNFSF2 (Mouse TNF- α /TNFSF2)	90621ES08	5 μ g
	90621ES60	100 μ g
	90621ES76	500 μ g

Product Description

Tumor necrosis factor alpha (TNF- α), also known as cachectin, is a cachectin, is a polypeptide cytokine produced by monocytes and macrophages. TNF α receptor signaling can simultaneously activate caspase 8, the transcription factor, NF- κ B and the kinase, JNK. Human TNF- α shares 97% aa sequence identity with rhesus and 71%-92% with bovine, canine, cotton rat, equine, feline, mouse, porcine, and rat TNF- α . TNF- α occurs as a secreted, soluble form and as a membrane-anchored form, both of which are biologically active. Inflammation is associated with insulin resistance, and TNF- α and IL-6 may affect glucose uptake. A wide variety of evidence has pointed to a critical role of TNF- α in tumour proliferation, migration, invasion and angiogenesis.

Product Properties

Synonyms	Tumor Necrosis Factor, TNFA, TNFSF2, Cachectin, Cytotoxin, Differentiation-inducing factor, DIF
Accession	P06804
GeneID	21926
Source	E.coli-derived mouse TNF- α /TNFSF2 protein, Leu80-Leu235, with an N-terminal Met.
Molecular Weight	Approximately 17.4 kDa.
AA Sequence	MLRSSSQNSS DKPVAHVVAN HQVEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLVY SQVLFKGQGC PDYVLLTHTV SRFAISYQEK VNLLSAVKSP CPKDTPEGAE LKPWYEPIYL GGVFQLEKGD QLSAEVNLPK YLDFAESGQV YFGVIAL
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 98% by SDS-PAGE and HPLC analyses.
Biological Activity	The ED ₅₀ as determined by a cytotoxicity assay using murine L929 cells is less than 0.1 ng/mL, corresponding to a specific activity of $> 1.0 \times 10^7$ IU/mg in the presence of actinomycin D. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1 μ g of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.2.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!