



Recombinant Protein Technical Manual

Recombinant Rabbit TNF-alpha/TNFSF2/TNFa Protein RPES3618

Product Data:

Product SKU: RPES3618

Size: 10µg

Species: Rabbit

Expression host: E. coli

Uniprot: P04924

Protein Information:

Molecular Mass: 17.59 kDa

AP Molecular Mass: 18 kDa

Tag:

Bio-activity: Measured in a cytotoxicity assay using L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is 3.5 pg/ml.

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 300mM NaCl, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Cell Culture

Synonyms: Tumor Necrosis Factor; Cachectin; TNF-Alpha; Tumor Necrosis Factor Ligand Superfamily Member 2; TNF-a; TNF; TNFA; TNFSF2

Immunogen Information:

Sequence: Val77-Leu235

Background:

Tumor necrosis factor alpha (TNF α) is the prototypic ligand of the TNF superfamily. TNF α forms a homotrimer and functions by activating two types of receptors TNF-R1 (TNF receptor type 1,p55R) and TNF-R2 (TNF receptor type 2,p75R). TNF α is a pleiotropic cytokine that is capable to promote inflammation, to induce apoptotic cell death, and to inhibit tumorigenesis and viral replication. TNF α is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells.