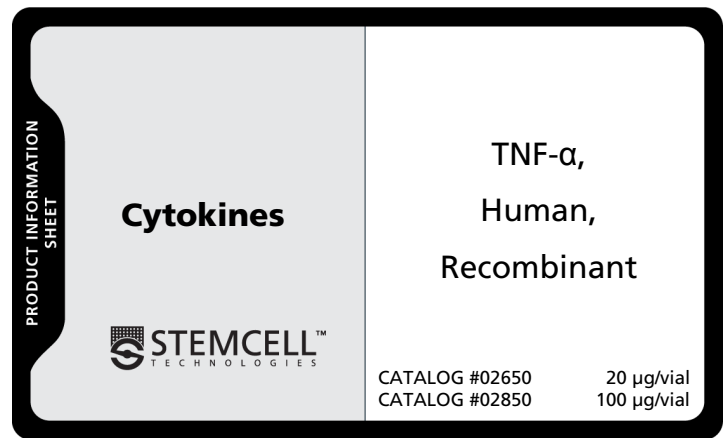


PRODUCT DESCRIPTION

Tumor necrosis factor - alpha (TNF- α) occurs as a secreted, soluble form and as a membrane-anchored form, both of which are biologically active. TNF- α is a pleiotropic factor activating multiple signal transduction pathways and inducing or suppressing the expression of a wide variety of genes. TNF- α plays a critical role in mediation of the inflammatory response and in influencing resistance to infections and tumor growth. Recombinant human TNF- α is a 17.5 kDa protein containing 158 amino acid residues.



SOURCE

A DNA sequence encoding mature human TNF- α was expressed in *E. coli*

PURITY

Greater than 97% as determined by SDS-PAGE and visualized by silver stain. Endotoxin level is less than 0.1 EU/ μ g of TNF- α , as assayed by the Limulus amoebocyte lysate (LAL) method.

ACTIVITY

The ED₅₀ of TNF- α , as measured in a cytotoxic assay using L-929 mouse fibroblast cell line in the presence of the metabolic inhibitor actinomycin D, is typically 25 - 100 pg/mL.

FORMULATION

Lyophilized from a 0.2 μ m filtered solution in phosphate-buffered saline (PBS) containing bovine serum albumin (BSA) as a carrier protein.

RECONSTITUTION

Reconstitute to a concentration of 100 μ g/mL with sterile PBS containing at least 0.1% human or bovine serum albumin.

STABILITY AND STORAGE

Product stable at -20°C for 12 months from date of receipt.

Once reconstituted, product can be aliquoted. Reconstituted product is stable at 2 - 8°C for one month or at -20°C for 3 months. Avoid additional freeze-thaw cycles.

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