TNF-α (human), (recombinant)

Recombinant human TNF-α that mediates proinflammatory signaling and regulates immune responses.

Tumor necrosis factor-alpha (TNFa), also known as cachectin, is a 17.5 kDa, 157 amino acid member of the TNF superfamily of cytokines that is a potent lymphoid factor with effects on a wide range of target cells. Active TNFa is produced as both soluble and membrane-anchored trimers by macrophages, NK cells, and T- and B-lymphocytes. TNF exerts proinflammatory signals via binding and inducing trimerization of TNF-receptor 1 (TNFR1) expressed on most normal and transformed cells, or to TNF-receptor 2 (TNFR2), expressed on endothelial and most immune cells. TNF signaling regulates hematopoiesis differentiation, endothelial cell activation, apoptosis, lipid metabolism, tumor progression, and immune surveillance, and dysregulation of TNF or its receptors is implicated in numerous disease states including cancer, osteoporosis, autoimmune diseases, diabetes, and atherosclerosis.

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Ordering Information

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ADI-908-066-010	10µg

Manuals, SDS & CofA

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Handling & Storage

Use/Stability	Upon reconstitution TNF-α should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Tumor necrosis factor-α, TNFSF 2
Application Notes	Western blot control.
Formulation	Lyophilized. Sterile filtered liquid, pH 7.2, containing 20mM PB and 100mM sodium chloride
Purity	≥95% (SDS-PAGE; RP-HPLC)
Purity Detail	Purified by multi-step chromatography.
Source	Produced in *E. coli*.
UniProt ID	P01375

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