

Recombinant Human TNF β / Tumor Necrosis Factor beta,

Animal Free & Carrier Free

Cat #: C-CYP215

Size: 5 μ g, 20 μ g, 100 μ g, 500 μ g, 1mg

Shipping: Blue Ice

Product Overview

TNF- β works as a potential mediator in the inflammatory and immune process. It is a component of the TNF family of ligands, and signals through TNFR1 and TNFR2. TNF- β is secreted by activated T and B lymphocytes, and has similar function to TNF- α . In the same manner as TNF- α , TNF- β is involved in the regulation of various biological processes, including cell proliferation, differentiation, apoptosis, lipid metabolism, coagulation, and neurotransmission. TNF- β is generally released as a soluble polypeptide. In addition, lymphotoxin- β can anchor TNF- β to the cell surface and form heterotrimers in an effective manner. TNF- β is cytotoxic to a wide range of tumor cells

Product Information

Source: *Escherichia Coli*.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

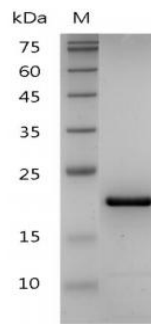
Biological Activity: Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED₅₀ for this effect is < 3 pg/mL. The specific activity of recombinant human TNF beta is >3.3 x 10⁸ IU/mg.

Endotoxin: <0.1 EU per 1 μ g of the protein by the LAL method.

Amino acid sequence:

LPGVGLTPSAAQTARQHPKMHLAHSTLKPAAHLLIGDPSKQNSLLWRANTDRAFLQDGFSLSNNSLLVPTSGIYFVYSQVVVFSGKAYSPKATS
SPLYLAHEVQLFSSQYPFHVPLLSSQKMVYPGLQEPWLHSMYHGAAAFQLTQGDQLSTHTDGIPHLVLPSTVFFGAFAL with polyhistidine tag at the N-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 20 mM sodium citrate, 0.2 M NaCl, pH 3.5



SDS-PAGE analysis of recombinant human TNF beta

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.