# **CS** CHASELECTION

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# CHASELECTION

# Recombinant Human Tumour necrosis factor-α/TNF-α

Catalog number: CYG052F0XXX、CY052F0XXX

### Synonyms:

Tumor Necrosis Factor, TNFSF2, Cachectin, Differentiation-inducing factor (DIF), Necrosin, Cytotoxin

### Source: E.coli

# Structure:

The protein carries no tag. AA Sequence: VRSSSRTPSD KPVAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV YFGIIAL

# Molecular Weight: 17.4kDa

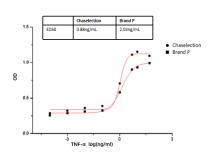
SDS-PAGE

Endotoxin:  $< 0.1\,E\,U/\mu\,g$ 

Fomulation: PBS, trehalose, mannitol,pH 7.2

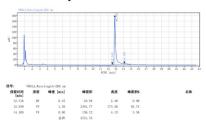
#### Fetures:

#### 1) Bioactivity



The  $ED_{50}$  as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is  $\leq 0.05$  ng/ml, corresponding to a specific activity of  $\geq 2 \times 10^7$  units/mg.





Greater than 98% by HPLC analyses

#### **Reconstitution:**

1. Before opening, please briefly centrifuge the

contents to the bottom;

2. It is recommended to initially dissolve in sterile deionized water to an appropriate concentration (recommended concentration is 0.2-1mg/ml);

3. If further dilution is required, it is recommended to dilute the solution with a solution containing carrier proteins (such as 0.1% BSA, 10% FBS, and 5% HSA).

# Shipping & Storage:

The product is shipped with blue ice.

If long-term storage is required, this product should be stored at  $\leq$  -20 °C, please avoid repeated freeze-thaw cycles.

1. Dry powder can be stored at  $\leq$  -20 for at least 24 months;

2. After reconstitution, it can be stored for 1 month under sterile conditions at 2-8  $^{\circ}$ C ;

3. After reconstitution, it can be stored for 12 months under sterile conditions at  $-20 \sim -70$  °C.

#### **Description:**

TNF-α is a pleiotropic pro-inflammatory cytokine secreted by various cells, including adipocytes, activated monocytes, macrophages, B cells, T cells and fibroblasts. It belongs to the TNF family of ligands, and signals through two receptors, TNFR1 and TNFR2. TNF-α is cytotoxic to a wide variety of tumor cells, and is an essential factor in mediating the immune response against bacterial infections. TNF- $\alpha$  also plays a role in the induction of septic shock, autoimmune diseases, rheumatoid arthritis, inflammation, and diabetes. Human and murine TNF-a demonstrate significant crossspecies reactivity. TNF-α exists in two forms; a type II transmembrane protein, and a mature soluble protein. The TNF-α transmembrane protein is proteolitically cleaved to yield a soluble, biologically active, 17 kDa TNF-α, which forms a non-covalently linked homotrimer in solution. Recombinant Human TNF-a is a soluble 157 amino acid protein (17.4 kDa) which corresponds to C-terminal extracellular domain of the full length transmembrane protein.



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