



CD40 Ligand/TRAP, soluble, mouse recombinant (rmsCD40L/TRAP)

Catalog No: 95004
Lot No: XXXXX
Source: *E. coli*
Synonyms: CD40-L, Tumor necrosis factor ligand superfamily member 5, TNF-related activation protein, TRAP, T cell antigen Gp39, CD154 antigen, sCD40, IGM, IMD3, HIGM1, T-BAM, TNFSF5, hCD40L

Background

CD40L or CD154 is a membrane glycoprotein and differentiation antigen expressed on the surface of T-cells. The CD40 ligand stimulates B-cell proliferation and secretion of all immunoglobulin isotypes in the presence of cytokines. CD40 ligand has been shown to induce cytokine production and tumoricidal activity in peripheral blood monocytes. It also costimulates proliferation of activated T-cells and this is accompanied by the production of IFN-gamma, TNF-alpha, and IL2.

Description

sCD40 mouse recombinant produced in *E. coli* is a non-glycosylated, polypeptide chain containing 149 amino acids and having a molecular mass of 16409 Dalton. sCD40 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a sterile concentrated solution (1 mg/ml) with 10 mM sodium phosphate pH 7.5.

Solubility

It is recommended to reconstitute the lyophilized sCD40 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized sCD40, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CD154 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Gln-Arg-Gly-Asp.

Activity

The ED50 as determined by its ability to induce MIP-1 alpha and TNF-alpha from mouse splenocytes was found to be 0.1 µg/ml corresponding to a specific activity of 10,000,000 IU/mg.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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