CD40 Ligand/TRAP, soluble, human recombinant (rHusCD40L/TRAP)

**Catalog No:** 94894  
**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 human recombinant produced in *E. coli* is a non-glycosylated, polypeptide chain containing 149 amino acids and having a molecular mass of 16308 Dalton. sCD40 is purified by proprietary chromatographic techniques.

**Physical Appearance**

Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation**

Lyophilized from a 0.2 µm filtered concentrated (1 mg/ml) solution in PBS, pH 7.0.

**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 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

**Activity**

The ED50 as determined by the dose-dependant stimulation of IL-12 induction and IL-8 production by human PBMC was found to be 5 - 10 ng/ml.

**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.