

32-1704: msCD40L Recombinant Protein

Alternative Name : 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.

Description

Source : Escherichia Coli. 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. The sCD40 is purified by proprietary chromatographic techniques. 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 .

Product Info

Amount : 25 µg
Purification : Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content : Lyophilized from a sterile concentrated solution (1mg/ml) with 10mM Sodium Phosphate pH=7.5.
Storage condition : 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.
Amino Acid : The sequence of the first five N-terminal amino acids was determined and was found to be Met-Gln-Arg-Gly-Asp.

Application Note

It is recommended to reconstitute the lyophilized sCD40 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by its ability to induce MIP-1 alpha & TNF-alpha from mouse splenocytes was found to be 0.1µg/ml corresponding to a Specific Activity of 10,000,000IU/mg.

