

Recombinant Mouse sCD40 Ligand (rm sCD40L / CD154)

sCD40L is a membrane glycoprotein and differentiation antigen expressed on the surface of T-cells. The sCD40 ligand stimulates B-cell proliferation and secretion of all immunoglobulin isotypes in the presence of cytokines. sCD40 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 γ , TNF α and IL-2.

Recombinant mouse sCD40L produced in E.Coli is a non-glycosylated polypeptide chain containing 149 amino acids and having a molecular mass of 16.4 kDa.

Synonyms : Tumor necrosis factor ligand superfamily member 5 (TNFSF5), TNF-related activation protein (TRAP), T cell antigen Gp39

Source: *Escherichia coli*

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

Formulation: Lyophilisate from a 0.22 μ m filtered carrier free solution in 25 mM sodium phosphate pH 6.5 + 200mM NaCl

Reconstitution: Reconstitute in sterile endotoxin free water not less than 100 μ g/ml

Stability: The lyophilized protein is stable for at least 2 years at -20° C. Reconstituted rm sCD40L is stable for at least 3 months when stored in concentrated working aliquots (100 ng/ μ l or higher) at -20° C. Avoid repeated freeze/thaw cycles.

Biological Activity: Determined by its ability to induce MIP-1 α & TNF α from mouse splenocytes the ED50 is found to be 0.1 μ g/ml.

Purity: 95% (verified by SDS-PAGE / silver stain)

Endotoxicity: The endotoxin level is less than 0.1 ng per μ g (1EU/ μ g) determined by LAL method

Order N $^{\circ}$: rm sCD40L+Size
available sizes: 5 μ g, 25 μ g, 100 μ g

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