
Product Data Sheet

Product Name: sCD40L Mouse
 Cat. No.: GP20874
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
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.		
Solubility	It is recommended to reconstitute the lyophilized sCD40 in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a sterile concentrated solution (1mg/ml) with 10mM Sodium Phosphate pH=7.5.		

Introduction

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.

Biological Activity

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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