
Product Data Sheet

Product Name: sCD40L Human
 Cat. No.: GP20872
 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.		
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 0.2μm filtered concentrated (1mg/ml) solution in PBS, pH 7.0.		

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

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

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

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a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

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. The sCD40 is purified by proprietary chromatographic techniques.

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