**rHu CD40-L**

*recombinant Mouse CD40-Ligand, CD40L, CD154*

**Product code A8212**

**Description:**
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. Recombinant Mouse CD40-L produced in *E. coli* is a non-glycosylated, polypeptide chain containing 149 amino acids and having a molecular mass of 16409 Dalton.

**Physical Appearance:** sterile filtered white lyophilized (freeze-dried) powder.

**Source:**
*E. coli*

**Formulation:** Lyophilized from a sterile concentrated solution (1 mg/ml) with 10 mM sodium phosphate pH 7.5.

**Reconstitution:** It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

**Stability:** Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended to add a carrier protein (0.1 % HSA or BSA) for long term storage.

**Purity:** > 98 % as determined by RP-HPLC, reducing and non-reducing SDS-PAGE.

**Protein Content:** determined by UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.

**Biological Activity:** Recombinant CD40-L is fully biologically active when compared to standard. The ED\(_{50}\) as determined by its ability to induce MIP-1\(\alpha\) and TNF-\(\alpha\) from mouse splenocytes was found to be 0.1 \(\mu\)g/ml.

**Amino Acids Sequence:**

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MQRGDEDPQI AAVHVSEANS NAAAVLQWAK KGYTMTSKNL VMLENGKQTLT VKREGLYYVY TQVTFCSNRE PSSQRPFIVG
LWLKPSSGSE RILLKAANTH SSSQLCEQQS VHLGGVFELQ AGASVFVNVT EASQVIHRVG FSSFLLKL
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**References**