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#32621**Human CD40 Ligand (hCD40L)
Recombinant Protein**

50 µg

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For Research Use Only. Not for Use in Diagnostic Procedures.**MW (kDa):**
16**UniProt ID:**
#P29965**Entrez-Gene Id:**
959**Background**

CD40 Ligand (CD40L), a member of the TNF superfamily of ligands, is expressed as either a membrane-bound or soluble homotrimer (1). Both membrane-bound and soluble forms of CD40L have biological activity (1,2). CD40L is expressed primarily on activated T cells; however, mast cells, basophils, and NK cells may also express CD40L (1). CD40L functions as an important T cell co-stimulatory molecule and enhances T-dependent B cell responses (1,2). CD40L binds CD40, which is a receptor expressed on B cells, dendritic cells, and macrophages (1). Binding of CD40L to CD40 leads to the recruitment of TRAF proteins (TRAFs 2,3,5, and 6) resulting in the activation of the JNK and NF-κB pathways (1,2).

Endotoxin

Less than or equal to 1 EU / 1 µg hCD40L.

Purity

A greater than 95% purity was determined by SDS-PAGE.

Source / PurificationRecombinant human CD40L was expressed in *E. coli* and is supplied in a lyophilized form.**Bioactivity**

The bioactivity of recombinant hCD40L was determined by measuring the secreted embryonic alkaline phosphatase (SEAP) activity in HEK-blue™ CD40L responsive indicator cells. The ED₅₀ of each lot is between 5-50 ng/ml.

Background References

1. van Kooten, C. and Banchereau, J. (2000) *J Leukoc Biol* 67, 2-17.
2. Peters, A.L. et al. (2009) *Semin Immunol* 21, 293-300.

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