

Active GMP Recombinant Human CD40LG Protein

Cat. No. CD40LG-156HG Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD40LG (Met113-Leu261) was produced in HEK293 cell in an animal component free process under cGMP guidelines.
Species	Human
Source	HEK293
ProteinLength	113-261 a.a.
Description	<p>CD40 Ligand (CD40LG) is a type II transmembrane glycoprotein that belongs to the TNF superfamily. Like other TNF superfamily members, CD40LG exists as a trimer in membrane bound and soluble form, both of which are bioactive. CD40LG is a ligand for CD40; its ligation also initiates signal transduction in CD40LG expressing cells. CD40LG is a differentiation antigen that is expressed on the surface of T-cells. It stimulates B-cell proliferation and secretion of all immunoglobulin isotypes in the presence of cytokines. CD40LG has been shown to induce cytokine production and tumoricidal activity in peripheral blood monocytes. It also co-stimulates proliferation of activated T-cells and this is accompanied by the production of IFN-gamma, TNF-alpha, and IL2.</p>
Form	Lyophilized.
Bio-activity	1x10 ⁵ U/mg
AA Sequence	MQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSNNLVTLENGKQLTVKRQGL

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YYIYAQVTF CSNREASSQAPFIASLCLKSPGRFERILLRAANTHSSAKPCGQQSIHLG
GVFELQPGASVFNVT DPSQVSHGTGFTSFGLLKL

**Residual Host Cell
DNA Content**

<10pg/mg

**Residual Host Cell
Protein Content**

<1ug/mg

Endotoxin

<0.1EU/ug

Purity

Greater than 95% as determined by reducing SDS-PAGE.

Usage

Recommemnd working concentration: 100-1000ng/ml

Storage

Lyophilized and reconstituted protein should be stored at -80 centigrade. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
It is not recommended to reconstitute to a concentration >100µg/ml.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Quality Statement

Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

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GENE INFORMATION**Gene Name** CD40LG CD40 ligand [Homo sapiens]**Official Symbol** CD40LG**Synonyms** CD40LG; CD40 ligand; CD40 antigen ligand; CD40L; CD154; gp39; hCD40L; TRAP; CD40-L; T-cell antigen Gp39; IGM; IMD3; HIGM1; T-BAM; TNFSF5**Gene ID** 959**mRNA Refseq** NM_000074**Protein Refseq** NP_000065**MIM** 300386**UniProt ID** P29965 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA