

CD40L/TNFSF5/TRAP/CD154, Human, Recombinant

Cat. No. : PCK290

General Information

Synonyms	soluble CD40 Ligand;TNFSF5;TRAP;CD154;Gp39;T-BAM;sCD40 Ligand
Species	Human
Expression host	E.coli
Sequence	MQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSNNLVTLENGKQLTVKRQGLYYIYAQ VTFCNREASSQAPFIASLCLKSPGRFERILLRAANTHSSAKPCGQQSIHLGGVFELQPGASVTV NVTDPQSQVSHGTGFTSFGLLKL with polyhistidine tag at the C-terminus
Accession	P29965
Tag	His-tag at the C-terminus
Mol mass	16.99 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED50 for this effect is < 5 ng/mL.

Product feature

Purity	> 95% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

CD40, belonging to the TNF receptor family, is a cell surface protein generally expressed on B cells, dendritic cells, monocytes, thymic epithelial cells and on T cells at low levels. The membrane-anchored CD40 Ligand is expressed almost exclusively on activated CD4⁺ T lymphocytes. CD40 signaling plays a significant role in immunoglobulin (Ig) class switching, and is critical for the proliferation and differentiation of B cells. A disease "immunodeficiency with hyper-IgM", characterized by failure to produce IgG, IgA and IgE due to failure expression of CD40L. The soluble form of CD40L is produced in vivo by an intracellular proteolytic processing of the entire TNF homologous region (18 kDa protein) of CD40L.

SDS-PAGE

