

## Product datasheet for **TP728171S**

### Recombinant CD40L (CD40 ligand), Human

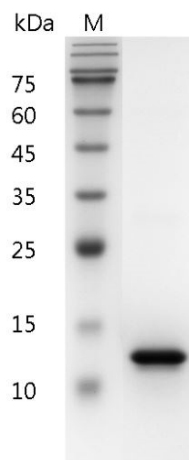
#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant CD40L (CD40 ligand), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSNNLVTLENGKQLTVKRQGLYYIAQVTFCSNRE ASSQAPFIASLCLKSPGRFERILLRAANTHSSAKPCGQQSIHLGGVFELQPGASVFVNVTDPQSQVSHGTGFT SFGLLKL with polyhistidine tag at the C-terminus
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 16.99 kDa. The protein migrates as 16 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>95% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0.
Bioactivity:	Measure by its ability to induce IL-8 secretion in human PBMCs. The ED <sub>50</sub> for this effect is <5 ng/mL.
Endotoxin:	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 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 -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	<a href="#">P29965</a>
Synonyms:	soluble CD40 Ligand, TNFSF5, TRAP, CD154, Gp39, T-BAM, sCD40 Ligand


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**Summary:**

Human CD40L (CD154) is one member of TNF family which is expressed on T cells. It binds the CD40, which is on the antigen-presenting cells (ex: B cells, macrophages and monocytes). Human CD40L is a 21.6 kDa cytokine with 103 amino acid residues which is a transmembrane glycoprotein. Human CD40L plays an important role in the adaptive immune system which induces the B cell maturation and activation.

**Product images:**


SDS- PAGE analysis of recombinant human CD40L