

Recombinant Human soluble CD40 Ligand (rHu sCD40L)

Catalog No: #70306

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Description

Product Name	Recombinant Human soluble CD40 Ligand (rHu sCD40L)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Target Name	rHu sCD40L
Other Names	TNFSF5, sCD40L, CD154, gp39, T-BAM, TNF-related Activation Protein, TRAP
Accession No.	accession:P29965 GeneID:959
Uniprot	P29965
GeneID	959;
Calculated MW	Approximately 16.3 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	MQKGDQNPQI AAHVISEASS KTTSVLQWAE KGYTMSNNL VTLENGKQLT VKRQGLYYIY AQVTFCSNRE ASSQAPFIAS LWLKSPGRFE RILLRAANTH SSAKPCGQQS IHLGGVFELQ PGASVFNVT DPSQVSHGTG FTSFGLLKL
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.0.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

Background

CD40 ligand is a 261 amino acid type II transmembrane glycoprotein belonging to the TNF family and can be cleaved into two chains: the CD40 ligand membrane form and CD40 ligand soluble form. It is primarily expressed on activated CD4+ T lymphocytes, and also found in other types of cells, like NK cells, mast cells, basophils and eosinophils. In total CD40 ligand has three binding partners: CD40, $\alpha 5 \beta 1$ integrin and $\alpha 1 \text{Ib} \beta 3$. It mediates a range of activities on B cells including induction of activation-associated surface antigen, entry into cell cycle, isotype switching and Ig secretion and memory generation. CD40-CD40L interaction also plays important roles in monocyte activation and dendritic cell maturation.

References

1. Li R, Chen WC, Pang XQ, et al. 2011. Mol Biol Rep, 38: 5459-64.
2. Reinboldt S, Wenzel F, Rauch BH, et al. 2009. Platelets, 20: 441-4.
3. Tousoulis D, Antoniadou C, Nikolopoulou A, et al. 2007. Eur J Clin Invest, 37: 623-8.
4. Varo N, Libby P, Nuzzo R, et al. 2005. Diab Vasc Dis Res, 2: 81-7.
5. Holzer G, Pfandlsteiner T, Blahovec H, et al. 2003. Wien Med Wochenschr, 153: 40-2.

Note: This product is for in vitro research use only