

Recombinant Human CD40 Ligand/TNFSF5 (Trimer)(monomeric hFc Tag)

产品信息

产品名称	产品编号	规格
Recombinant Human CD40 Ligand/TNFSF5 (Trimer)(monomeric hFc Tag)	94136ES25	25 µg
	94136ES60	100 µg
	94136ES76	500 µg
	94136ES80	1 mg

产品描述

CD40 Ligand, also known as TNFSF5, a type II membrane protein with homology to TNF, is transiently expressed on activated T cells and known to be important for B cell Ig production and for activation and differentiation of monocytes and dendritic cells. Mature human CD40 Ligand consists of a 22 amino acid (aa) cytoplasmic domain, a transmembrane segment, and an 215 aa extracellular region. 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 $\alpha IIb\beta 3$. CD40 Ligand dysregulation on T cells and antigen presenting cells contributes to the immune deficiency associated with HIV infection and AIDS. CD40 ligation by CD40 Ligand promotes B cell activation and T cell-dependent humoral responses.

产品性质

别名	CD40L; CD40LG; CD154; TNFSF5; TNFSF5IMD3; CD40LIGM; gp39; HIGM1; T-BAM; TRAP; IGM; IMD3; CD40 Ligand
Uniprot No.	P29965
表达区间及表达系统	Recombinant Human CD40 Ligand/TNFSF5 Trimer Protein is expressed from HEK293 Cells with monomeric hFc tag at the N-terminal. It contains Met113-Leu261.
分子量	Approximately 74.9 kDa. Due to glycosylation, the protein migrates to 75-80 kDa based on Tris-Bis PAGE result.
纯度	> 95% as determined by SDS-PAGE and HPLC.
活性	ELISA Data: Immobilized Human CD40, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human CD40 Ligand (Trimer), hFc Tag with the EC50 of 0.13µg/ml determined by ELISA. Blocking Data: Serial dilutions of Anti-CD40 Antibody were added into Biotinylated Human CD40, His Tag : Human CD40 Ligand (Trimer), hFc Tag binding reactions. The half maximal inhibitory concentration (IC50) is 2.0ug/ml.
内毒素	< 1.0 EU per 1µg of the protein by the LAL method.
制剂	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
复溶	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

运输与保存方法

冰袋运输。-20°C至-80°C保存，一年有效期。

复溶后，-20 至 -80°C，在未开封状态下保存 3-6 个月。复溶后，2-8°C 保存 2-7 天。

建议第一次使用时分装冻存，避免反复冻融。

注意事项

1. 避免反复冻融。
2. 为了您的安全和健康，请穿实验服并戴一次性手套操作。
3. 本产品仅作科研用途！

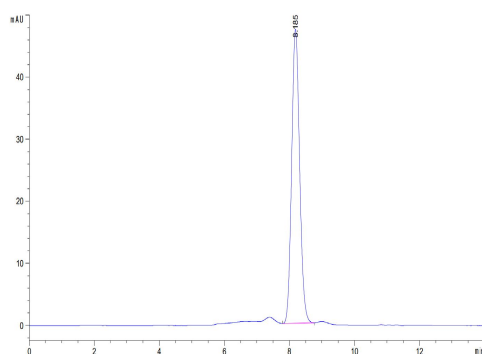
产品数据

Tris-Bis PAGE



Human CD40 Ligand (Trimer) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

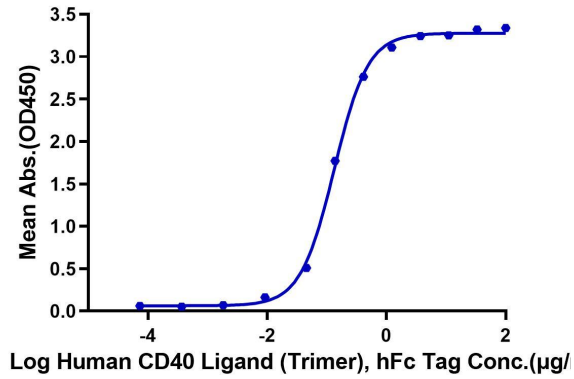


The purity of Human CD40 Ligand (Trimer) is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human CD40 Ligand (Trimer), hFc Tag ELISA

0.1 μ g Human CD40, His Tag Per Well

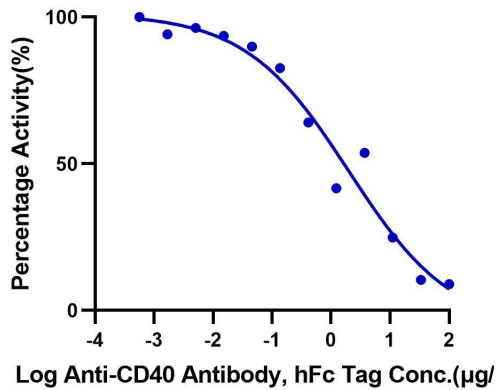


Immobilized Human CD40, His Tag at 1 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Human CD40 Ligand (Trimer) , hFc Tag with the EC50 of 0.13 μ g/ml determined by ELISA.

Blocking Data

Inhibition of Human CD40 Ligand (Trimer) and CD4 α

0.5 μ g Human CD40 Ligand (Trimer), hFc Tag Per Well



Serial dilutions of Anti-CD40 Antibody were added into Biotinylated Human CD40, His Tag : Human CD40 Ligand (Trimer) , hFc Tag binding reactions. The half maximal inhibitory concentration (IC50) is 2.0 μ g/ml.