

# CHAMOT

**重组人肿瘤坏死因子超家族成员14 /Recombinant  
LIGHT, Human, Animal-Free**

CM057-5HP

CM057-20HP

CM057-100HP

CM057-500HP

CM057-1000HP



CHAMOT

乔默®生物

*Specialize In Cytokines*

# CONTENT

1 产品简介

2 产品使用

3 产品储存/运输

4 实验数据展示

## 重组人肿瘤坏死因子超家族成员14 /Recombinant LIGHT, Human, Animal-Free

产品编号	CM057-5HP	CM057-20HP	CM057-100HP	CM057-500HP	CM057-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

#### 背景描述

LIGHT, also known as TNFSF14 is a member of the TNF superfamily that produced by multiple immune cells such as activated T cells and immature dendritic cells (DCs). LIGHT is a 29 kDa type II transmembrane protein, which serves as a ligand for both lymphotoxin  $\beta$  receptor (LT $\beta$ R) and TNFSF signaling receptors (TNFRSF14/HVEM). Besides, LIGHT can amplify NF- $\kappa$ B signaling pathway in T cells when presenting anti-CD3 antibody treatment. Additionally, LIGHT can stimulate T cell proliferation and IFN-expression via interacting with TNFRS13 /HVEM.

#### 别称

TNFSF14, HVEM-L, CD258, LTg

#### 蛋白编码

O43557.2

#### 分子量

The protein has a calculated MW of 20.30 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

#### 表达系统

Escherichia coli

#### 纯度

>98% as determined by SDS-PAGE.

#### 生物活性

Measure by its ability to induce cytotoxicity in HT-29 cells in the presence of IFN- $\gamma$ . The ED<sub>50</sub> for this effect is < 10 ng/mL.

#### 内毒素检测

<0.1 EU per 1 µg of the protein by the LAL method.

#### 蛋白序列

MRLGEMVTRLPDGPAGSWEQLIQERRSHEVNPAAHLTGANSSLTGSGGPLLWETQLGLAFLR  
GLSYHDGALVVTKAGYYIYSKVQLGGVGCPLGLASTITHGLYKRTPRYPEELELLVSQQSPCGR  
ATSSSRVWWDSSFLGGVVHLEAGEKVVVRVLDERLVRLRDGTRSYFGAFMV with  
polyhistidine tag at the C-terminus.

#### 产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

#### 产品应用

Cell Culture

## 产品使用

1. Before opening, centrifuge at 3000 rpm for 5 mins.

### 2. Initial Reconstitution

- Reconstitute the Lyophilized Protein in sterile H<sub>2</sub>O to a concentration of 100-200 µg/mL.
- Then, incubate it at room temperature for at least 20 mins to ensure sufficient dissolution.

Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

- Store at 2°C to 8°C for up to 1 week.

### 3. Extended Storage

- After the initial reconstitution, further dilute the reconstituted protein in a buffer containing a carrier protein or stabilizer (e.g., 0.1% BSA, 10% FBS, 5% HSA, or 5% trehalose solution). The final concentration is not less than 10 µg/ml.

- Prepare aliquots (≥20 µl).
- Store at -20°C or -80°C for 3 to 6 months.

Avoid repeated freeze-thaw cycles.

## 产品储存/运输

**Lyophilized Protein:** Store at -20°C for 1 year.

### 储存

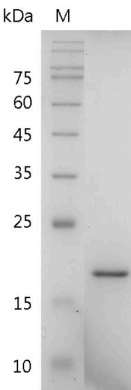
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**Extended Storage:** Store at -20°C or -80°C for 3 to 6 months with a carrier protein or stabilizer.

### 运输

Blue Ice

## 实验数据展示



For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. [www.chamot-bio.com](http://www.chamot-bio.com)

Tel: 021-51880030 Mail: [info@chamot-bio.com](mailto:info@chamot-bio.com) QQ: 864920491