

# CHAMOT

**重组鼠标肿瘤坏死因子超家族成员14 /Recombinant LIGHT, Mouse, Animal-Free**

**CM043-5MP**

**CM043-20MP**

**CM043-100MP**

**CM043-500MP**

**CM043-1000MP**



**CHAMOT**

乔默®生物

*Specialize In Cytokines*

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## 重组鼠标肿瘤坏死因子超家族成员14 /Recombinant LIGHT, Mouse, Animal-Free

产品编号	CM043-5MP	CM043-20MP	CM043-100MP	CM043-500MP	CM043-1000MP
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). Mouse LIGHT shares 79% sequence homology with human LIGHT. 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 presencing anti-CD3 antibody treatment. Additionally, LIGHT is able to stimulate T cell proliferation and IFN expression via interacting with TNFRS13 /HVEM.

#### 别称

TNFSF14, HVEM-L, CD258, Ly113, LTg

#### 蛋白编码

Q9QYH9

#### 分子量

The protein has a calculated MW of 20.92 kDa. The protein migrates about 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. The ED<sub>50</sub> for this effect is <2 µg/mL.

#### 内毒素检测

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

#### 蛋白序列

MRLHQRLGDIVAHLDPDGGKGSWEKLIQDQRSHQANPAAHLTGANASLIGIGGPLLWETRLGLAFLRGLTYHDGALVTMEPGYYYVYSKVQLSGVGCPQGLANGLPITHGLYKRTSRYPKELELLVSRSPCGRANSSRVVWDSSFLGGVVHLEAGEEVVVRVPGNRLVRPRDGTSTSYFGAFMV 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 7.4. If you have any concerns or special requirements, please confirm with us.

## 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

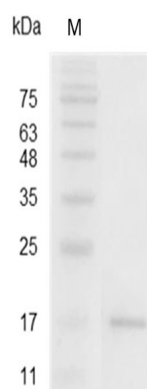
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



SDS-PAGE analysis of recombinant mouse LIGHT

For Research Use or Further Manufacturing Only

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