

# CHAMOT

重组人（哺乳动物细胞表达）高迁移率族蛋白B1  
/Recombinant HMGB1 C23AC45AC106A,  
Human, Animal-Free

CM177-5HP

CM177-20HP

CM177-100HP

CM177-500HP

CM177-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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## 重组人 (哺乳动物细胞表达) 高迁移率族蛋白B1 /Recombinant HMGB1 C23AC45AC106A, Human, Animal-Free

产品编号	CM177-5HP	CM177-20HP	CM177-100HP	CM177-500HP	CM177-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

#### 背景描述

High Mobility Group protein B1 protein (HMGB1) is the high mobility group box family of non-histone chromosomal proteins. Human HMGB1 is expressed as a 25 kDa single chain polypeptide containing three domains: two N-terminal HMG boxes A and B, and a negatively charged 30 a.a. C-terminal region that contains only Asp and Glu. Post-translational modification on HMGB1 have been reported, affect its localization, receptor interactions, and function. HMGB1, with a disulfide bond between C23 and C45, have been reported that cause cytokine production and the activation of NF-κB. Otherwise, the fully oxidized form has no immune function, losing its proinflammatory effect and the apoptotic cell death activation function. Here, we developed HMGB1 C23A, C45A & 10<sup>6</sup>A mutant proteins, the fully oxidized HMGB1, eliminant the disulfide bond formation.

#### 别称

high mobility group box 1, HMG-1, HMG1, HMG3, SBP-1

#### 蛋白编码

P09429

#### 分子量

The protein has a calculated MW of 36.33 kDa. The protein migrates as 35-48 kDa under reducing condition (SDS-PAGE analysis).

#### 表达系统

HEK293

#### 纯度

>98% as determined by SDS-PAGE.

#### 生物活性

Measure by its ability to induce TNF alpha in RAW264.7 cells. The ED<sub>50</sub> for this effect is <10 µg/mL.

#### 内毒素检测

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

#### 蛋白序列

MGKGDPKKPRGKMSSYAFFVQTAREEHKKKHPDASVNFSEFSKKASERWKTMSAKEKGKFED  
 MAKADKARYEREMKTYIPPKGETKKFKDPNAPRPPSAFFLFASEYRPKIKGEHPGLSIGDVAK  
 KLGEMWNNTAADDKQPYEKKAAKLKEKYEKDIAAYRAKGKPDAAKGVVKAEKSKKKKEEEE  
 DEEDEEDEEEDEEDEEEDDDDE with polyhistidine-SUMO tag at the N-terminus

产品形式	The protein was lyophilized from a 0.2 $\mu$ m filtered solution containing 1X PBS, pH 7.4. 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  $\mu$ g/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  $\mu$ g/ml.
- Prepare aliquots ( $\geq$ 20  $\mu$ l).
- 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

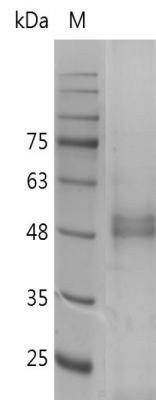
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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 human HMGB1 C23AC45AC10<sup>6</sup>A

For Research Use or Further Manufacturing Only

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