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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

CM177-5HP

CM177-20HP

CM177-100HP

CM177-500HP

CM177-1000HP

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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

CHAMOT 乔默® 生物 Specialize In Cytokines

Product Datasheet

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 & 10^6A 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_{50} 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	MGKGDPKKPRGKMSSYAFFVQTAREEHKKKHPDASVNFSEFSKKASERWKTMSAKEKGKFEDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSAFFLFASEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAAKLKEKYEKDIAAYRAKGKPDAAKKGVVKAEKSKKKKEEEEDEEDEEEEEEDEEDEDEEEDDDDE with polyhistidine-SUMO tag at the N-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_2O 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).

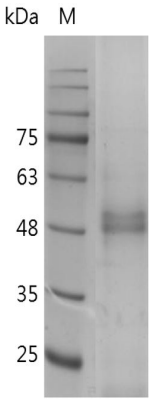
• Store at -20°C or -80°C for 3 to 6 months.

Avoid repeated freeze-thaw cycles.

产品储存/运输

储存	**Lyophilized Protein:** Store at -20°C for 1 year. **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 C23AC45AC10⁶A

For Research Use or Further Manufacturing Only

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