CHAMOT

重组人高迁移率族蛋白B1 /Recombinant HMGB1，Human，Animal-Free

CM083-5HP

CM083-20HP

CM083-100HP

CM083-500HP

CM083-1000HP

CHAMOT

乔 默® 生 物

Specialize In Cytokines

CONTENT

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Product Datasheet

重组人高迁移率族蛋白B1 /Recombinant HMGB1，Human，Animal-Free

产品编号	CM083-5HP	CM083-20HP	CM083-100HP	CM083-500HP	CM083-1000HP
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 aa 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, 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.
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 25.70 kDa. The protein migrates as 25-35 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 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	MGKGDPKKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGKFEDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAAKLKEKYEKDIAAYRAKGKPDAAKKGVVKAEKSKKKKEEEEDEEDEEDEEEEEDEEDEDEEEDDDDE 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_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).

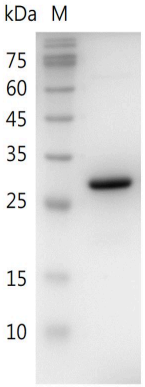
• Store at -20°C or -80°C for 3 to 6 months.

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

For Research Use or Further Manufacturing Only

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