

CHAMOT

**重组人IGF结合蛋白7 /Recombinant IGFBP7,
Human, Animal-Free**

CM183-5HP

CM183-20HP

CM183-100HP

CM183-500HP

CM183-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines



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重组人IGF结合蛋白7 /Recombinant IGFBP7, Human, Animal-Free

产品编号	CM183-5HP	CM183-20HP	CM183-100HP	CM183-500HP	CM183-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

IGFBP7, also known as mac25, prostacyclin-stimulating factor (PSF), tumor adhesion factor (TAF), and angiomodulin (AGM), is a secreted protein that belongs to the insulin-like growth factor (IGF)-binding protein (IGFBP) family. In contrast to the other family members, IGFBP7 binds IGFs through the N-terminal domain with low affinity. IGFBP7 is expressed in various human tissues, including the brain, liver, pancreas, and skeletal muscle, and is secreted into circulation. IGF-BP7 modulates many biological functions, such as protein synthesis, proliferation, anti-apoptosis, and cell survival. Moreover, it has been reported that IGFBP7 promotes cardiac senescence through IGF-1R/IRS/AKT-dependent suppression of FOXO3a, inhibiting DNA repair, subsequently the leading to the progression of Heart failure. Human and mouse IGFBP7 are highly homologous, sharing 94% a.a. sequence identity.

别称

IGF-binding protein 7, IBP-7, IGFBP-7, IGFBP-rP1, MAC25, PSF(Prostacyclin-stimulating factor), TAF(Tumor-derived adhesion factor)

蛋白编码

Q16270

分子量

The protein has a calculated MW of 38.18 kDa. The protein migrates as 55 kDa under reducing condition (SDS-PAGE analysis).

表达系统

HEK293

纯度

>95% as determined by SDS-PAGE.

生物活性

Testing in process

内毒素检测

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

蛋白序列

A DNA sequence encoding Human IGFBP7 (#Q16270) (Ser27 – Leu282) was expressed 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.

产品使用

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

2. Initial Reconstitution

- Reconstitute the Lyophilized Protein in sterile H₂O 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.

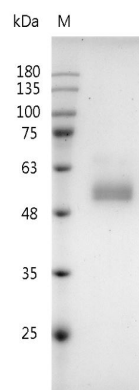
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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 IGFBP7

For Research Use or Further Manufacturing Only

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