# CHAMOT

## 重组人神经节苷脂2活化素 /Recombinant GM2A，Human，Animal-Free，HEK293

CM185-5HP

CM185-20HP

CM185-100HP

CM185-500HP

CM185-1000HP

CHAMOT

乔 默® 生 物

Specialize In Cytokines

# CONTENT

CHAMOT 乔默® 生物 Specialize In Cytokines

# Product Datasheet

# 重组人神经节苷脂2活化素 /Recombinant GM2A，Human，Animal-Free，HEK293

| 产品编号 | CM185-5HP | CM185-20HP | CM185-100HP | CM185-500HP | CM185-1000HP |
|---|---|---|---|---|---|
| 规格 | 5 μg | 20 μg | 100 μg | 500 μg | 1 mg |

## 产品简介

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|---|---|
| **背景描述** | The human GM2A protein, also known as GM2 ganglioside activator protein, is a small glycoprotein that plays a crucial role in lipid metabolism. It is primarily expressed in lysosomes, where it binds to and facilitates the breakdown of a type of lipid molecule known as GM2 ganglioside. This lipid molecule is typically found in high concentrations in the nervous system and plays a key role in neural signaling. Deficiencies in the GM2A protein have been linked to a rare genetic disorder known as GM2 gangliosidosis, which can lead to the accumulation of GM2 ganglioside in the brain and nervous system. This can result in severe neurological symptoms, including developmental delays, seizures, and loss of motor function. Recent research has also suggested that the GM2A protein may have potential therapeutic applications in the treatment of certain types of cancer. Studies have shown that the protein can help to induce apoptosis (cell death) in cancer cells, and may be able to enhance the effectiveness of certain chemotherapy drugs. Overall, the human GM2A protein plays a critical role in lipid metabolism and has important implications for a range of health conditions, from rare genetic disorders to cancer. |
| **别称** | Cerebroside sulfate activator protein, GM2-AP, Sphingolipid activator protein 3, SAP-3 |
| **蛋白编码** | P17900 |
| **分子量** | The protein has a calculated MW of 21.92 kDa. The protein migrates as 24 kDa under reducing condition (SDS-PAGE analysis). |
| **表达系统** | HEK293 cell |
| **纯度** | >95% as determined by SDS-PAGE analysis. |
| **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 GM2A Protein (#P17900)(Met1-Ile193) was expressed with polyhistidine tag at the C-terminus. |

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| **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

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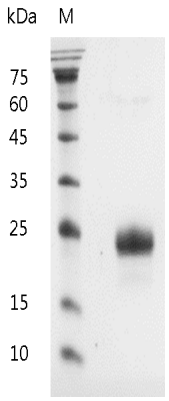
|---|---|
| **储存** | **Lyophilized Protein:** Store at -20°C for 1 year.<br>**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.<br>**Extended Storage:** Store at -20°C or -80°C for 3 to 6 months with a carrier protein or stabilizer. |
| **运输** | Blue Ice |

## 实验数据展示




SDS-PAGE analysis of recombinant human GM2A

For Research Use or Further Manufacturing Only

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