

CHAMOT

重组人Wnt-3a Surrogate蛋白 /Recombinant Wnt-3a Surrogate, Human, Animal-Free, HEK293

CM193-5HP



CM193-20HP



CM193-100HP



CM193-500HP



CM193-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组人Wnt-3a Surrogate蛋白 /Recombinant Wnt-3a Surrogate, Human, Animal-Free, HEK293

产品编号	CM193-5HP	CM193-20HP	CM193-100HP	CM193-500HP	CM193-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Wnt3a is a secreted glycoprotein that activates the canonical Wnt/β-catenin signaling pathway, playing a crucial role in embryonic development, tissue homeostasis, and injury repair. However, its experimental application is hindered by poor solubility and cross-reactivity with multiple Frizzled receptors. To address these challenges, engineered Wnt3a surrogate proteins have been developed. These surrogates are water-soluble and designed to specifically bind to targeted Frizzled receptors, effectively mimicking natural Wnt3a activity with enhanced precision. This specificity and improved solubility make Wnt3a surrogates valuable tools in research areas such as organoid culture, stem cell maintenance, and studies of developmental biology.

别称

Wnt3a Surrogate, Wingless-type MMTV integration site family member 3A Surrogate, WNT3A

分子量

The protein has a calculated MW of 58.5 kDa. The protein migrates as 55-75 kDa under reducing condition (SDS-PAGE analysis).

表达系统

HEK293 cell

纯度

>95% as determined by SDS-PAGE.

生物活性

Measured by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <20 ng/mL.

内毒素检测

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

蛋白序列

Human Wnt-3a Surrogate protein is expressed from HEK293 with human IgG1 Fc tag at the C-terminus.

支原体

Not detected

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 ($\geq 20 \mu\text{l}$).
- 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

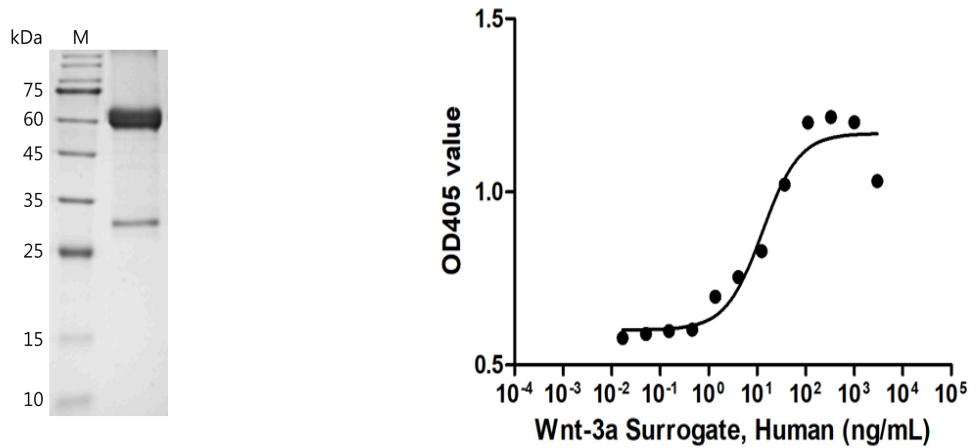
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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 Wnt-3a Surrogate

Human Wnt-3a Surrogate, Fc Tag, HEK293 induced alkaline phosphatase production by ATDC5 cells, with the $ED_{50} < 20$ ng/mL.

For Research Use or Further Manufacturing Only

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