

CHAMOT

Recombinant IL-18, Human, GMP

CM022-100HPG
CM022-1000HPG



CHAMOT

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CONTENT

1 产品简介

2 产品组成

3 产品储存

4 产品使用

5 产品规范

Recombinant IL-18 (Interleukin-18), Human, GMP

编号:	CM022-100HPG CM022-1000HPG	规格:	100 µg 1 mg
类别:	重组蛋白	应用:	Functional Assay

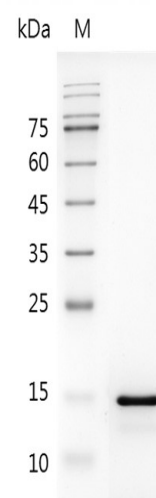
产品简介

描述: Interleukin-18 (IL-18) is a cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. IL-18 works by binding to the IL-18 receptor, and together with IL-12 that it induces cell-mediated immunity following infection with microbial products like lipopolysaccharide (LPS). After stimulation with IL-18, natural killer (NK) cells and certain T cells release another important cytokine called interferon gamma or type II interferon that plays an important role in activating the macrophages or other cells. The combination of this cytokine and IL-12 has been shown to inhibit IL-4 dependent IgE and IgG1 production, and enhance IgG2a production in B cells. IL-18 binding protein (IL-18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity.

来源: *Escherichia coli*.
Animal-free reagent and laboratory.
Manufactured and tested under GMP guideline.

纯度: >97% as determined by SDS-PAGE analysis.

生物学活性: Measure by its ability to induce IFN gamma secretion in KG-1 cells. The ED₅₀ for this effect is <6 ng/mL. The specific activity of recombinant human IL-18 GMP is > 1 x 10⁷ IU/mg, which is calibrated against the human IL-18 WHO Reference Reagent (NIBSC code: 03/200).



SDS-PAGE analysis of recombinant IL-18, Human, GMP

内毒素检测: <0.05 EU per 1 µg of the protein by the LAL method.

蛋白序列: MYFGKLESKLSVIRNLNDQVLFIDQGNRPLFED
 MTDSDCRDNAPRTIFIISMYKDSQPRGMAVTI
 SVKCEKISTLSCENKIISFKEMNPPDNIKDTKSDII
 FFQRSVPGHDNKMQFESSSYEGYFLACEKERD
 LFKLILKKEDELGDRSIMFTVQNED

产品组成

成分: 从含有 1X PBS, pH 7.4溶液中冻干的蛋白质,
 无任何动物源性成分.

产品储存

储存: -20°C冻干粉保存 1 年.
 运输: 蓝冰.

产品使用

- 1、开盖前, 建议3000-3500rpm离心5min。
- 2、推荐使用无菌水重悬冻干粉, 溶液浓度不低于500µg/mL, 并室温静置至少20min以充分溶解。勿涡旋剧烈振荡。
- 3、重悬后的溶液, 2-8无菌保存不超过1周。
- 4、如需长期保存, 推荐使用无菌的含载体蛋白 (如0.1%BSA、10%FBS 或5%HSA) 的溶液进一步稀释 (不低于10ug/mL) 后分装保存, -20至-80无菌保存3到6个月。无血清实验需求时, 可更换为 5%海藻糖溶液作为载体。避免反复冻融。

产品规范

CHAMOT GMP recombinant proteins are manufactured in ISO 13485:2016 and GMP certified facility. The processes include:

- ★Testing and traceability of raw material
- ★Records of the maintenance and equipment calibration
- ★Personnel training records
- ★Batch-to-batch consistency
- ★Documentation of QA control and process changes
- ★Manufactured and tested under an ISO 13485:2016 certified quality management system
- ★Stability monitor of product shelf-life

WB=Western Blot; IP=Immunoprecipitation; IF=Immunofluorescence; IHC=Immunohistochemistry;
 FACS=Fluorescence activated Cell Sorting; FA=Functional Assay