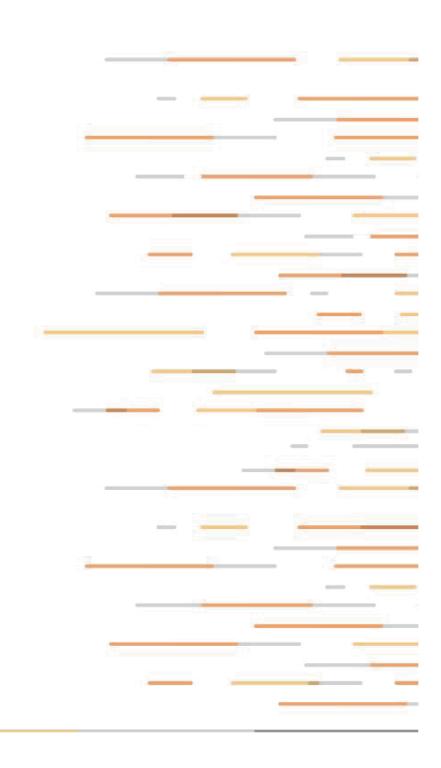
# **CHAMOT**

Recombinant IL-15, Human, GMP

CM016-100HPG

CM016-1000HPG





- 1 Product Specifications
- 2 Product Note
- 3 Storage/Shipping
- 4 Scientific Data



## **Product Datasheet**

# Recombinant IL-15, Human, GMP

Catalog#	CM016-100HPG	CM016-1000HPG
Size	100 ug	1 mg

#### **Product Specifications**

Background

Interleukin-15 (IL-15) is a 14-15 kDa glycoprotein with immune regulatory functions in many diverse cell types. IL-15 can be constitutively expressed in a variety of cell types stored as intracellular protein in the cytoplasm as well as transport to the cell surface, while only secreted from some cell types including monocytes, dendritic cells, epithelial cells, bone marrow stromal cells, and fibroblasts. As a pleiotropic cytokine, IL-15 mediates the crosstalk between innate immunity and adaptive immunity whose principal role is to kill virally infected cells. IL-15 plays a crucial role in the development, differentiation, and survival of NK cells. In monocytes, IL-15 induces the production of IL-8 and monocyte chemotactic protein 1 (MCP-1), which recruits neutrophils and monocytes to sites of infection. IL-15 can also act as a chemo-attractant in T lymphocytes and regulate the differentiation of T lymphocytes.

Synonyms	interleukin 15, IL-T, IL15
<b>Uniprot ID</b>	P40933
Molecular Weight	The protein has a calculated MW of 13.7 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).
Expression System	Escherichia coli
Purity	>95% as determined by SDS-PAGE analysis.
Activity	Measure by its ability to induce proliferation in CTLL-2 cells. The ED $_{50}$ for this effect is < 3 ng/mL. The specific activity of recombinant human IL-15 is > 2 x 10 $^6$ IU/mg, which is calibrated against the human IL-15 WHO International Standard (NIBSC code: 95/554).
Endotoxin Level	<0.05 EU per 1 µg of the protein by the LAL method.
Protein Sequence	NWVNVISDLKKIEDLIQSMHIDATLYTESDVHPSCKVTAMKCFLLELQVISLESGDASIHDTVENLIILAN NSLSSNGNVTESGCKECEELEEKNIKEFLQSFVHIVQMFIN TS with polyhistidine tag at the Nterminus.
Form	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
Application	Cell Culture

#### **Product Note**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

### Storage/Shipping

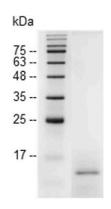
Stability & Storage

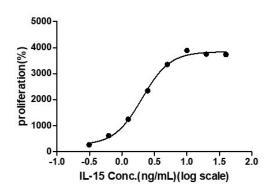
Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

**Shipping** 

Blue Ice

#### **Scientific Data**





SDS- PAGE analysis of GMP human IL-15

GMP Human IL-15 Protein, His Tag, E. coli induces CTLL-2 cell proliferation, with the ED $_{50}$  <3 ng/mL.

For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. www.chamot-bio.com

Tel: 021-51880030 Mail: info@chamot-bio.com QQ: 864920491