Technical Data Sheet

Recombinant human IL-15 protein

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Lot Specific Information

Lot Number: **Lot Specific***

Total Protein: **Lot Specific***

*This information will be noted on the certificate of analysis that ships with this product.

Shelf Life

This product has a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended.

Product Information

Catalog Number:	**RP089**
Protein Identity:	Confirmed identity with expected mass, determined by mass spectrometry
Reported Applications:	Development, survival, and function of T cells Development and formation of NK cells Development and formation of B cells Differentiation of myeloid cells into dendritic cells Hematopoietic stem cell research
Formulation:	Lyophilized, white powder
Endotoxin:	≤1.2 EU/mg, LAL assay
Purity:	≥95%; SDS-PAGE
Reconstitution:	Resuspend in 10 mM HCl (Reconstitution Buffer A) at >50 µg/ml. Once reconstituted, store in single-use aliquots to avoid freeze-thaw cycles. Store reconstituted protein at -20 °C to -80 °C for a maximum of 12 months or until the expiry date if sooner.
Sterility:	Sterile
Production:	Microbial. Expressed in E. coli
Molecular Weight:	12.9 kDa (monomer)
Bioactivity Assay:	No significant difference between EC50 of reference and test lots
Mycoplasma:	Negative

Description

Recombinant human IL-15 protein (interleukin-15) is a pro-inflammatory cytokine expressed by a wide variety of tissues and cell types, including epithelial cells, fibroblasts, keratinocytes, nerve cells, monocytes, macrophages and dendritic cells. Although it lacks sequence homology with IL-2, IL-15 shares many of its biological properties by interacting with components of the IL-2 receptor, inducing JAK kinase activation and phosphorylation of the transcription activators STAT3, STAT5 and STAT6. IL-15 stimulates the proliferation and activation of multiple lymphocyte subsets, including NK, NKT, Th17, Treg and CD8+ memory T cells, and is essential for NK cell development. IL-15 plays a role in inflammatory disorders such as rheumatoid arthritis, psoriasis and pulmonary inflammatory diseases, with IL-15 neutralization showing beneficial effects in models of psoriasis and diabetes, and it is implicated in both the development and treatment of cancers. In cell culture, recombinant IL-15 is used to develop NK cells from hematopoietic progenitor cells, to precondition CAR T cells and to support engineering of cells that express IL-15 in vivo, making it a key reagent for immunology and cell therapy research. This protein is optimized for in vivo and functional applications: low-endotoxin, tag-free, and carrier-free, supporting reproducible performance in demanding preclinical and bioactivity studies. A GMP-grade version of this protein is available for cell and gene therapy manufacturing. Contact us at customerservice@bioxcell.com for details. Species reactivity: human. Species similarity: mouse - 73%, rat - 72%, bovine - 78%, porcine - 81%.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at https://bioxcell.com/faqs.

Store lyophilized protein between -20 °C and -80 °C until the date of expiry. Avoid freeze-thaw cycles

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