



Recombinant Human Interleukin-15 (IL-15)

PRODUCT ANALYSIS SHEET

Catalog Number:	PHC9154	PHC9151
Quantity:	10µg	100 µg

Lot Number: See product label

Expiration Date: See product label

Molecular Weight: 13.2 kDa (114 amino acid residues)

Purity: ≥ 95% as determined by SDS-PAGE analysis.

Biological Activity: Specific Activity is $> 2 \times 10^6$ units/mg. The biological activity was determined by measuring the dose-dependent proliferation of mouse CTLL-2 cells. The optimal concentration for each specific application should be determined empirically by an initial dose-response assay. IL-15 stimulates the proliferation of T cells, and also involved in activation of NK cells, neutrophils, and macrophages. Enhanced IL-15 secretion is observed in several disease states, including rheumatoid arthritis, psoriasis, inflammatory bowel disease, and pulmonary inflammatory diseases.

Formulation: Lyophilized.

Sterility: Filtered prior to lyophilization .

Endotoxin: < 1 EU/µg

Production: Recombinant human IL-15 is produced in *E. coli* and purified by sequential chromatography.

Reconstitution Recommendation: We recommend to reconstitute the lyophilized protein in sterile ddH₂O containing at least 0.1% human serum albumin or bovine serum albumin to prepare a stock solution of no less than 1 mg/mL of the protein. The reconstituted protein should be apportioned into working aliquots and stored at $\leq -20^{\circ}\text{C}$.

Suggested Working Dilutions: The optimal concentration should be determined for each specific application.

Storage: The lyophilized protein is stable for a few weeks at room temperature, but is best stored at -20°C . Reconstituted human IL-15 should be stored at $\leq -20^{\circ}\text{C}$ (not in a frost-free freezer). Keep freeze-thaw cycles to a minimum.

References: Alpdogan, O, and van der Brink, M.R. (2005) IL-7 and IL-15: therapeutic cytokines for immunodeficiency. Trends Immunol. 26(1):56-64. (review)

McInnes, I.B. and Gracie, J.A. (2004) Interleukin-15: a new target for the treatment of inflammatory disease. Curr. Opin. Pharmacol. 4(4):392-397. (review)

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

For research use only. CAUTION: Not for human or animal therapeutic or diagnostic use.

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PI IL-15

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