

Data Sheet

GMP Recombinant Human Interleukin-4 (rh IL-4), USP-grade

Order No.: 1003-050, 1003-1000

Product Characteristics

Source	<i>E. coli</i>
Description	Human Interleukin-4, accession # P05112, His25-Ser153 N-terminal Met Molecular mass 15.1 kDa
Formulation	Lyophilized from a 0.2 µm-filtered solution containing 1.5 mM potassium phosphate, 8.1 mM sodium phosphate, 2.7 mM potassium chloride and 137 mM sodium chloride, pH 7.5

Quality Parameters

Identity	Confirmed by DNA-sequencing of the expression plasmid in end-of-production cells, Immunoblot and N-terminal sequencing of the final product
Activity	8 - 14 x 10 ⁶ IU/mg ¹ calibrated against the NIBSC 88/656 Measured in a cell proliferation assay using an IL-4-dependent cell line, TF1
Purity	≥ 97 %, as determined by SDS-PAGE (under reducing and non-reducing conditions, visualized by silver staining)
Product-related proteins	≤ 10 % oligomers as determined by SDS-PAGE (under reducing and non-reducing conditions, visualized by silver staining)
Host-cell DNA	≤ 1 ng/mg, as determined with the Threshold [®] system
Host-cell protein	≤ 1.0 µg/mg, as determined by ELISA
Endotoxin	≤ 50 EU/mg, as determined by LAL gel clot test according to Ph. Eur. and USP
Sterility	Sterility test according to Ph. Eur. and USP of the vial product (direct inoculation)
Mass per vial	1003-050: 43 - 57 µg, 1003-1000: 900 - 1100 µg, as determined by spectrophotometrical measurement

¹USP units are equivalent to International Units per mg (IU/mg)

本品は研究用試薬です。治療および診断目的にはご使用できません。

Shipment & Storage

Transport	Ambient temperature. Please refer to Technote (www.cellgenix.com)
Expiry	Minimum 6 months from date of shipping
Storage & Stability	Store lyophilized cytokine at -20°C or below. Store a 250 µg/ml cytokine solution <ul style="list-style-type: none">• 4 weeks at 2°C to 8°C under sterile conditions after reconstitution. Store in the original container.• 4 months at -20°C or below under sterile conditions after reconstitution. Store in 60 µl aliquots in polypropylene cryogenic vials. Avoid repeated freeze/thaw cycles.

Handling Instructions

Reconstitution	Recommended in sterile water to a final concentration of 250 µg/ml for 50 µg vials or 500 µg/ml for 1000 µg vials.
Dilution	Recommended in CellGro® / CellGenix™ serum-free media. For dilution with protein free medium, a carrier protein (0.1-1 % albumin or 1-10 % appropriate serum) has to be included. Failure to dilute product according to these instructions may result in loss of activity.

Quality Statement

This product is manufactured, tested and released in compliance with the relevant GMP-guidelines. No animal- or human-derived materials were used during the manufacturing. USP chapter <1043> "ancillary materials for cell, gene, and tissue-engineered products" has been considered in the design of this product.

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