

Data Sheet

CellGenix® GMP Recombinant Human Interleukin-6 (rh IL-6)

Order No.: 1004-050 (50 μg), 1004-1000 (1000 μg)

Product Characteristics

Source E. coli

Description Human Interleukin-6, accession # P05231, Pro29-Met212

N-terminal Met and C-terminal 6xHis-tag

Molecular mass 21.9 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.

Intended use For clinical ex vivo use. Not intended for human in vivo application.

Quality Parameters

Identity Confirmed by DNA-sequencing of the expression plasmid in end-of-production cells

and N-terminal sequencing of the final product

Activity 80 - 250 x 10⁶ IU /mg calibrated against NIBSC #89/548

Measured in a cell proliferation assay using an IL-6-dependent cell line, B9

Purity ≥ 98 %, as determined by SDS-PAGE (under reducing and non-reducing conditions,

visualized by Coomassie staining)

Product-related proteins ≤ 15 % oligomers as determined by SDS-PAGE (under non-reducing conditions,

visualized by Coomassie staining)

Host-cell DNA ≤ 200 ng/mg, as determined with a fluorimetric assay

Host-cell protein \leq 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 vialed product (direct inoculation)

Mass per vial 50 μg: 43 - 57 μg, 1000 μg: 900 - 1100 μg

as determined by spectrophotometrical measurement

Animal-derived ADCF Level 2: The final product contains neither animal- nor human-derived

component-free materials. ADCF Level 2 cytokines are produced in our dedicated animal-free facility. No animal-derived components are used throughout the complete production process.

All ADCF Level 2 cytokines are produced in E. coli.



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 to -80°C.

Avoid repeated freeze/thaw cycles.

Handling Instructions

Reconstitution Recommended in sterile water to a final concentration of 250 μg/ml for 50 μg vials

and for 1000 µg vials. We recommend to not vortex the solution. The solution can be

turbid, this however does not influence the activity.

Dilution Recommended in 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. USP chapter <1043> has been considered in the design of this product. This product is compliant with Ph. Eur. general chapter 5.2.12.