

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 further manufacturing use.

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 \leq 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

Mass per vial $50 \mu g: 43 - 57 \mu g, 1000 \mu g: 900 - 1100 \mu g$

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)

Shelf life Minimum 6 months from date of shipping

Storage & Stability Store lyophilized cytokine at -20 °C to -80 °C.

Store a 100 μ g/ml reconstituted cytokine solution:

• 4 weeks at 2 °C to 8 °C under sterile conditions after reconstitution. Store in the original container.

• 4 months at -20 °C to -80 °C under sterile conditions after reconstitution. Store in 80 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

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. No animal- or human-derived components are present in the final product and no animal- or human-derived materials were used in production (ADCF Level 2). USP chapter <1043> has been considered in the design of this product. This product is compliant with Ph. Eur. general chapter 5.2.12 and ISO Technical Standard 20399.