

Data Sheet

GMP Recombinant Human Interleukin-2 (rh IL-2)

Order No.: 1020-050, 1020-1000

Product Characteristics

Source	<i>E. coli</i>
Description	Human Interleukin-2 with a substitution of cysteine-125 by serine, accession # P60568, Pro22-Thr153 N-terminal Met and C-terminal 6xHis-tag Molecular mass 16.3 kDa With the exception of the added C-terminal 6xHis-tag, the amino acid sequence corresponds to that of Aldesleukin®
Formulation	Lyophilized from a 0.2 µm-filtered solution containing 25 mM sodium acetate and 50 mM sodium chloride, pH 5.0
Intended use	For clinical

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	8 – 32 x 10 ⁶ IU/mg calibrated against Proleukin® Measured in a cell proliferation assay using an IL-2-dependent cell line, CTLL-2
Purity	≥ 97 %, as determined by SDS-PAGE (under reducing and non-reducing conditions, visualized by Coomassie staining) and RP-HPLC
Product-related proteins	≤ 5 % oligomers as determined by SDS-PAGE (under non-reducing conditions, visualized by Coomassie staining) and ≤ 5 % oxidized IL-2 species as determined by RP-HPLC
Host-cell DNA	≤ 200 ng/mg, as determined with a fluorimetric assay
Host-cell protein	≤ 1.0 µg/mg, as determined by ELISA
Endotoxin	≤ 25 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	1020-050: 43 – 57 µg, 1020-1000: 900 – 1100 µg, as determined by spectrophotometrical measurement

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Shipment & Storage

Transport	Ambient temperature. Please refer to Technote (www.cellgenix.com)
Expiry	Minimum 6 months from date of shipping
Storage & Stability	<p>Store lyophilized cytokine at -20°C or below. Store a 250 µg/ml cytokine solution</p> <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. <p>Avoid repeated freeze/thaw cycles.</p>

Handling Instructions

Reconstitution	Recommended in 0.2 % acetic acid 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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