

Data Sheet

CellGenix® Recombinant Human Interleukin-21 (rh IL-21)

Preclinical Grade – Order No.: 1419-010 (10 µg), 1419-050 (50 µg)

Product Characteristics

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| Source | <i>E. coli</i> |
| Description | Human Interleukin-21, accession # Q9HBE4, Gln25-Ser155, N-terminal Met Molecular mass 15.4 kDa |
| Formulation | Lyophilized from a 0.2 µm-filtered protein solution containing 15 mM sodium acetate and 45 mM sodium chloride, pH 5.5. |
| Intended use | For preclinical <i>ex vivo</i> use. Not intended for therapeutic use. |

Quality Parameters

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| Activity | ≥ 0.5 x 10 ⁶ U/mg calibrated against the internal standard "IL-21 RS1" Measured in a cell proliferation assay using an IL-21-dependent cell line, B9 |
| Purity | ≥ 95 %, as determined by SDS-PAGE (under reducing and non-reducing conditions, visualized by Coomassie staining) |
| Endotoxin | < 25 EU/mg, as determined by LAL gel clot test |
| Sterility | Sterility test of the vial product |
| Mass per vial | 1419-010: 10 µg, 1419-050: 50 µg |
| Animal-derived component-free | ADCF Level 2: The final product contains neither animal- nor human-derived 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 <i>E. coli</i> . |

Shipment & Storage

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| Transport | Ambient temperature. Please refer to Technote (www.cellgenix.com) |
| Shelf life | 3 years from date of shipment |
| Storage & Stability | <p>Store lyophilized cytokine at -20 °C to -80 °C.</p> <p>Store a 100 µg/ml reconstituted 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 to -80 °C under sterile conditions after reconstitution. Store in 80 µl aliquots in polypropylene cryogenic vials. <p>Avoid repeated freeze/thaw cycles.</p> |

Handling Instructions

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| Reconstitution | Recommended in sterile water to a final concentration of 100 µg/ml (for 10 µg vials) or 250 µg/ml (for 50 µg vials). |
| 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

Final manufacturing steps and QC are performed in a GMP facility. 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).