

Data Sheet

CellGenix® GMP Recombinant Human Activin A (rh Activin A)

Order No.: 1022-050 (50 μg)

Product Characteristics

Source E. coli

Description Human Activin A (also known as inhibin beta A chain), accession # P08476, Gly311-

Ser426

N-terminal Met

Molecular mass 26.2 kDa per homodimer

Formulation Lyophilized from a 0.2 µm-filtered solution containing 20 mM glycine, 150 mM sodium

chloride and 3 % mannitol, pH 9.5

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 0.6 – 2.5 x 10³ IU /mg calibrated against NIBSC #91/626

Measured by inhibition of proliferation of MPC-11 cells

Purity ≥ 97 %, as determined by SDS-PAGE (under reducing and non-reducing conditions,

visualized by Coomassie staining)

Product-related proteins ≤ 5 % oligomers, as determined by SDS-PAGE (under reducing and 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

Mass per vial $43 - 57 \mu g$, 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 250 µg/ml reconstituted cytokine solution for 4 weeks at 2 °C to 8 °C under sterile conditions after reconstitution. Store in the original container.

• Store a 100 μ g/ml reconstituted cytokine solution for 4 months at -20 °C to -80 °C under sterile conditions after reconstitution. Store in 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.

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 20399:2022.

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