Data Sheet

CellGenix® Recombinant Human Activin A (rh Activin A)

Preclinical Grade - Order No.: 1422-010 (10 µg)*, 1422-050 (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 preclinical *ex vivo* use. Not intended for therapeutic use.

Quality Parameters

Activity	≥ 0.5 x 10^3 IU/mg calibrated against NIBSC #91/626 Measured by inhibition of proliferation of MPC-11 cells
Purity	≥ 95 %, as determined by SDS-PAGE (under reducing and non-reducing conditions, visualized by Coomassie staining)
Endotoxin	< 1000 EU/mg, as determined by LAL gel clot test
Sterility	Sterility test of the vialed product
Mass per vial	1422-010: 10 µg, 1422-050: 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 *E. coli*.

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*Since October 1st 2022 this pack size is no longer available in the USA, Canada and Europe.

Shipment & Storage

Transport	Ambient temperature. Please refer to Technote (www.cellgenix.com)
Shelf life	3 years from date of shipment
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 µg/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 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).

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