

### Data Sheet

# CellGenix® GMP Recombinant Human Fibroblast Growth Factor-2 (rh FGF-2)

Order No.: 1021-050 (50 μg), 1021-1000 (1000 μg)

#### **Product Characteristics**

Source E. coli

**Description** Human FGF-2, accession # P09038, Ala135-Ser288

N-terminal Met

Molecular mass 17.3 kDa

Formulation Lyophilized from a 0.2 µm-filtered solution containing 25 mM sodium phosphate,

400 mM sodium chloride, 10 mM glutathione (red.) and 5 % mannitol, pH 6.5

**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  $0.9 - 3.6 \times 10^6 \text{ IU /mg}$  calibrated against NIBSC #90/712

Measured in a cell proliferation assay using a FGF-2-dependent cell line, FBHE

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

Coomassie staining) and RP-HPLC

**Product-related proteins** ≤ 20 % oligomers, as determined by SDS-PAGE (under reducing conditions, visualized

by Coomassie staining) and ≤ 20 % oxidized species, as determined by RP-HPLC

Host-cell DNA ≤ 200 ng/mg, as determined with a fluorimetric assay

Host-cell protein  $\leq$  1.0  $\mu$ g/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** 50 μg: 43 - 57 μg, 1000 μg: 900 - 1100 μg

as determined by spectrophotometrical measurement

Animal-derived ADCF Level 1: The final product contains neither animal- nor human-derived

component-free materials.





## 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 cytokine solution

• 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 for 50 μg vials or

 $500 \mu g/ml$  for  $1000 \mu g$  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**

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 (ADCF Level 1). 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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