

#### 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 clinical ex vivo use. Not intended for human in vivo application.

#### **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 x 10<sup>6</sup> 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**  $\leq$  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 (direct inoculation)

**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)

**Expiry** 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 60 μl aliquots in polypropylene cryogenic vials. (optional)

Avoid repeated freeze/thaw cycles.

## **Handling Instructions**

**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. USP chapter <1043> has been considered in the design of this product. This product is compliant with Ph. Eur. general chapter 5.2.12.