

Data Sheet

GMP Recombinant Human Tumor Necrosis Factor-alpha (rh TNF-α)

Order No.: 1006-050

Product Characteristics

Source F. coli

Human TNF-alpha, accession # P01375, Val77-Leu233 Description

N-terminal Met

Molecular mass 17.5 kDa

Formulation Lyophilized from 200 µl of a 0.2 µm-filtered solution containing 1.5 mM

potassium phosphate, 8.1 mM sodium phosphate, 2.7 mM potassium chloride

and 137 mM sodium chloride, pH 7.5

Quality Parameters

Confirmed by DNA-sequencing of the expression plasmid in end-of-Identity

production cells and N-terminal sequencing of the final product

Activity 20 - 80 x 10⁶ IU/mg calibrated against NIBSC #88/786

Measured in a cell cytotoxicity assay using L929 cells

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

conditions, visualized by Coomassie staining)

Product-related

Host-cell DNA

≤ 10 % oligomers as determined by SDS-PAGE (under non-reducing) conditions, visualized by Coomassie staining)

 \leq 200 ng/mg, as determined with a fluorimetric assay

proteins

Host-cell protein \leq 1.0 µg/mg, as determined by ELISA

≤ 50 EU/mg, as determined by LAL gel clot test according to Ph. Eur. and USP Endotoxin

Sterility test according to Ph. Eur. and USP of the vialed product (direct Sterility

inoculation)

Mass per vial 43 - 57 µg as determined by spectrophotometrical measurement

本品は研究用試薬です。治療および診断目的にはご使用できません。



Shipment & Storage

Transport Ambient temperature. Please refer to Technote (www.cellgenix.com)

Expiry Minimum 6 months from date of shipping

Storage & Stabilty Store lyophilized cytokine at -20°C or below.

Avoid repeated freeze/thaw cycles.

Handling Instructions

Reconstitution Recommended in sterile water to a final concentration of 250 µg/ml.

Dilution Recommended in CellGro® / 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 materials were used during the manufacturing. USP chapter <1043> "ancillary materials for cell, gene, and tissue-engineered products" has been considered in the design of this product.

Page 2 of 2

HQ: CellGenix GmbH | Am Flughafen 16 | D - 79108 Freiburg | GERMANY | Phone +49 761 88889 - 0 | Fax + 49 761 88889 - 830