

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant FGF-21, Mouse

Catalog Number: BK0041-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

Fibroblast growth factor-21 (FGF21) belongs to the large FGF family which has at least 23 members. Along with FGF-19/15 and FGF-23, FGF-21 is categorized as a member of the atypical FGF subfamily, as it must be complexed to the Klotho co-receptor in order to bind to the FGF receptors and activate the downstream signaling pathway. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. Recombinant Mouse Fibroblast Growth Factor-21(FGF-21) produced in E.coli is a single non-glycosylated polypeptide chain containing 182 amino acids. A fully biologically active molecule, rmFGF-21 has a molecular mass of 19.9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

19.9 kDa, observed by reducing SDS-PAGE.

Purity:

> 97% as analyzed by SDS-PAGE& HPLC.

Biological Activity:

ED50 < 0.5 µg/ml, measured by a cell proliferation assay using NIH-3T3 cells in the presence of 1.25 µg/mL mouse Klotho and 10 µg/mL heparin, corresponding to a specific activity of $> 2 \times 10^3$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

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Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

AYPEIPDSSPLLQFGGQVRQRY-
LYTDDDQDTEAHLEIREDDGTVVGAAHR-
SPESLLELKALKPGVIQILGV-
KASRFLCQQPDGALYG-
SPHFDPEACSFRELLLEDGYNVYQSEAHGLPLRL
PQKD-
SPNQDATSWGPVRFPLPMPGLLHEPQDQAG-
FLPPEPPDVGSSDPLSMVEPLQGRSPSYAS

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Mouse Fibroblast Growth Factor-21(FGF-21), remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Mouse FGF-21 should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

Usage:

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