

FGF-18 Protein, Human, Recombinant

General Information

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| Synonyms: | FGFI;zFGF5;Fibroblast Growth Factor-18;FGF18 |
| Protein Construction: | Ala27-Arg199 |
| Species: | Human |
| Expression Host: | E. coli |
| Accession: | O76093 |
| Molecular Weight: | ~20.3 kDa (Reducing conditions) |

QC Testing

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| Biological Activity: | ED 50 < 10.0 ng/ml, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 1.0 × 10 ⁵ units/mg. |
| Purity: | > 95% as determined by SDS-PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 0.2 EU/μg of protein as determined by the LAL method. |
| Formulation: | Lyophilized from a 0.2 μm filtered solution in PBS. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Fibroblast Growth Factor-18 (FGF-18) is a heparin-binding growth factor that is a member of the FGF family. FGF-18 signals through FGFR 1c, 2c, 3c, and 4. FGF-18 plays an important role in the regulation of cell proliferation, cell differentiation and cell migration. FGF-18 is required for normal ossification and bone development. It can also stimulate hepatic and intestinal proliferation.

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