Bioactive

# FGF21 (Human) Recombinant Protein

Catalog # P7413 Size 10 ug

## Specification

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| **Product Description** | Human FGF21 (Q9NSA1, 29 a.a. - 209 a.a.) partial recombinant protein with an N-terminal Gly expressed in *Escherichia coli*. |
| **Sequence** | HPIPDSSPLLQFGGQVRQRYLYTDDAQQTEAHLEIREDGTVGGAADQSPESLLQLKALKPGVIQIL GVKTSRFLCQRPDGALYGSLHFDPEACSFRELLLEDGYNVYQSEAHGLPLHLPGNKSPHRDPAP RGPARFLPLPGLPPALPEPPGILAPQPPDVGSSDPLSMVGPSQGRSPSYAS |
| **Host** | Escherichia coli |
| **Theoretical MW (kDa)** | ~ 19.5 |
| **Form** | Lyophilized |
| **Preparation Method** | *Escherichia coli* expression system |
| **Purity** | > 95% as analyzed by SDS-PAGE.<br>> 95% as analyzed by HPLC. |
| **Endotoxin Level** | < 0.2 EU/ ug of protein (gel clotting method) |
| **Activity** | $ED_{50}$ < 0.5 ug/mL, measured by a cell proliferation assay using NIH-3T3 cells in the presence of 1.25 ug/mL mouse Klotho and 10 ug/mL heparin, corresponding to a specific activity of > $2.0 \times 10^3$ units/mg. |
| **Recommend Usage** | Biological Activity<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from PBS. Reconstitute the lyophilized powder in dd$H_2O$ up to 100 ug/mL. |
| **Storage Instruction** | Store at 4°C for 1 week. For long term storage store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — FGF21

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| **Entrez GeneID** | 26291 |
| **Protein Accession#** | Q9NSA1 |
| **Gene Name** | FGF21 |
| **Gene Alias** | - |
| **Gene Description** | fibroblast growth factor 21 |
| **Omim ID** | 609436 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. 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. The function of this growth factor has not yet been determined. [provided by RefSeq |
| **Other Designations** | - |

## Pathway

- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Regulation of actin cytoskeleton