# Recombinant FGF8 protein (His tag)

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| **Catalog Number** | 544714 |
| **Synonyms** | FGF-8; Androgen-induced growth factor; AIGF; Heparin-binding growth factor 8; HBGF-8 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | P55075 |
| **Molecular Weight** | Predictes a molecular mass of 18.95 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band. |

## Product Information

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| **Sequence Region** | 50-199 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >85%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 50-199 aa (P55075) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human Fibroblast growth factor 8 (FGF-8) Fragment (aa 50-199) is a high-purity, stable protein fragment designed for structural and biochemical research. This 150-amino acid soluble unit retains key functional characteristics, making it ideal for studies in developmental biology, cell signaling, and neuronal development.<br>Fibroblast growth factor 8 (FGF-8), also known as Androgen-induced growth factor or Heparin-binding growth factor 8, is a secreted protein that plays crucial roles in embryonic development, cell proliferation, differentiation, and migration. It is essential for normal development of the brain, eyes, ears, and limbs during embryogenesis and is required for proper development of the gonadotropin-releasing hormone (GnRH) neuronal system. Additionally, FGF-8 contributes to neurite outgrowth in hippocampal cells, highlighting its importance in neuronal development and function. The protein is naturally secreted into the extracellular space, where it exerts its biological activities. |