

## Fgf8 active protein

FGF8 Protein, Human, Recombinant

CATALOG #  
**AAA258049**

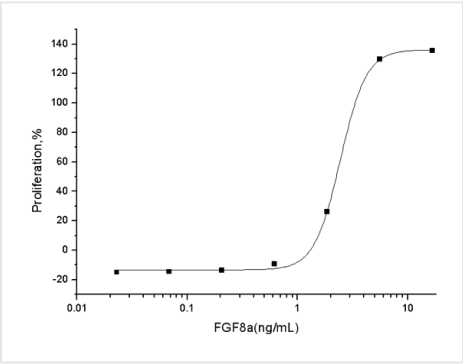
HOST  
**E Coli**

### PRODUCT SYNONYMS

FGF8; FGF8 Protein; Human; Recombinant; Human FGF8a/FGF-8a Protein; AIGF Protein; FGF-8 Protein; HBGF-8 Protein; HH6 Protein; KAL6 Protein; NEWENTRY Protein; fibroblast growth factor 8 (androgen-induced); Fgf8 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Purity/Purification     | >95% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Form/Format             | Lyophilized from sterile 20mM Tris, 500mM NaCl, pH8.5. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.                                                                                                                                                                                                                                                                                    |
| Sequence                | Gln23-Arg204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Activity                | Measured in a cell proliferation assay using BALB/c 3T3 mouse fibroblasts. The ED50 for this effect is typically 0.8-3.3ug/mL.                                                                                                                                                                                                                                                                                                                                                                                          |
| Predicted N Terminal    | Met                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tag                     | Native                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Protein Construction    | A DNA sequence encoding the human FGF8a (NP_149355.1)(Gln23-Arg204) was expressed with an initial Met.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Reconstitution          | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                                                                                                                                                                                                                         |
| Preparation and Storage | <p>Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <p>In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid.</p> <p>They are shipped out with blue ice.</p> |



SDS-PAGE

**Application Data**  
Measured in a cell proliferation assay using BALB/c 3T3 mouse fibroblasts. The ED50 for this effect is typically 0.8-3.3 ug/mL.

ADDITIONAL INFORMATION

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| Related Product Information for Fgf8 active protein | Background: In mammalian embryos, transient Fgf8 expression defines the developing isthmic region, lying between the midbrain and the first rhombomere, but there has been uncertainty about the existence of a distinct isthmic segment in postnatal mammals. Retinoic acid (RA) directly represses Fgf8 through a RARE-mediated mechanism that promotes repressive chromatin, thus providing valuable insight into the mechanism of RA-FGF antagonism during progenitor cell differentiation. Fgf8 encodes a key signaling factor, and its precise regulation is essential for embryo patterning. |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| NCBI GI #                        | 15147350                                           |
| NCBI GeneID                      | 2253                                               |
| NCBI Accession #                 | NP_149355.1; NP_006110.1; NP_149354.1; NP_149353.1 |
| NCBI GenBank Nucleotide #        | NM_033165.3                                        |
| Molecular Weight                 | 27,715 Da                                          |
| NCBI Official Full Name          | fibroblast growth factor 8 isoform A               |
| NCBI Official Synonym Full Names | fibroblast growth factor 8                         |
| NCBI Official Symbol             | FGF8                                               |
| NCBI Official Synonym Symbols    | HH6; AIGF; KAL6; FGF-8; HBGF-8                     |
| NCBI Protein Information         | fibroblast growth factor 8                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.