

**FGF-8e**  
**Catalog # PVGS1493****Specification**

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**FGF-8e - Product Information**

Primary Accession [P55075](#)  
**Species**  
Human

**Sequence**  
Gln23-Arg233, expressed with an N-terminal Met

**Purity**  
> 95% as analyzed by SDS-PAGE

**Endotoxin Level**  
< 0.2 EU/ µg of protein by gel clotting method

**Biological Activity**  
ED<sub>50</sub> < 2.5 µg/ml in the presence of 1.0 µg/ml heparin, measured in a cell proliferation assay using 3T3.

**Expression System**  
E. coli

Formulation **Lyophilized after extensive dialysis against PBS.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH<sub>2</sub>O or PBS up to 100 µg/ml.

**Storage & Stability**  
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.

**FGF-8e - Additional Information**

**Gene ID** 2253

**Other Names**  
Fibroblast growth factor 8, FGF-8, Androgen-induced growth factor, AIGF, Heparin-binding growth factor 8, HBGF-8, FGF8, AIGF

**Target Background**  
Fibroblast Growth Factor 8e (FGF-8e) is a cytokine belonging to the heparin-binding FGF family, which has at least 23 members. FGF-8 has 8 different isoforms, named FGF-8a through FGF-8h. Different FGF-8 isoforms have different receptor affinities, and thus participate in different

signaling cascade pathways. FGF-8 has widespread expression during embryonic development, promoting gastrulation, somitogenesis, morphogenesis, and limb formation. FGF-8 also has oncogenic potential. While in normal cells FGF-8 is expressed at very low levels, in breast, prostate and ovarian cancer FGF-8 is highly expressed. FGF-8 promotes tumor angiogenesis by increasing neovascularization, and inducing osteoblastic differentiation.

## **FGF-8e - Protein Information**

**Name** FGF8

**Synonyms** AIGF

### **Function**

Plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. Required for normal brain, eye, ear and limb development during embryogenesis. Required for normal development of the gonadotropin-releasing hormone (GnRH) neuronal system (PubMed: [16384934](http://www.uniprot.org/citations/16384934), PubMed: [16597617](http://www.uniprot.org/citations/16597617), PubMed: [8663044](http://www.uniprot.org/citations/8663044)). Plays a role in neurite outgrowth in hippocampal cells (PubMed: [21576111](http://www.uniprot.org/citations/21576111)).

### **Cellular Location**

Secreted.

## **FGF-8e - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **FGF-8e - Images**