

# Active Recombinant Human FGF8 Protein (Gln23-Arg215), Met

Cat. No. FGF8-647H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human FGF8 Protein (NP_006110.1) (Gln23-Arg215) was produced by E. coli expression system. This protein was expressed with an initial Met.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Gln23-Arg215
<b>Description</b>	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.
<b>Predicted N Terminal</b>	Met
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	Measured in a cell proliferation assay using BALB/c 3T3 mouse fibroblasts. The ED50 for this effect is typically 0.4-1.6 µg/mL.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	The recombinant human FGF8 consists 194 amino acids and predicts a molecular mass of 22.5 kDa.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Shipping</b>	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. They are shipped out with blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	FGF8 fibroblast growth factor 8 (androgen-induced) [ Homo sapiens ]
<b>Official Symbol</b>	FGF8
<b>Synonyms</b>	FGF8; AIGF; KAL6; FGF-8; HBGF-8; MGC149376;
<b>Gene ID</b>	2253
<b>mRNA Refseq</b>	NM_001206389

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**Protein Refseq** [NP\\_001193318](#)

**MIM** [600483](#)

**UniProt ID** [P55075](#)

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