

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

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

SPECIFICATION

Product Overview	Recombinant Human FGF8 Protein (NP_006110.1) (Gln23-Arg215) was produced by E. coli expression system. This protein was expressed with an initial Met.
Species	Human
Source	E.coli
ProteinLength	Gln23-Arg215
Description	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.
Predicted N Terminal	Met
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	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.

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Molecular Mass	The recombinant human FGF8 consists 194 amino acids and predicts a molecular mass of 22.5 kDa.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	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.
Reconstitution	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.
Shipping	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

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

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Protein Refseq	NP_001193318
MIM	600483
UniProt ID	P55075

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