

FGF-8b Protein, Human, Recombinant V2

General Information

Synonyms:	NEWENTRY;AIGF;FGF-8;fibroblast growth factor 8 (androgen-induced);KAL6;HBGF-8;HH6
Protein Construction:	Gln23-Arg215
Species:	Human
Expression Host:	E. coli
Accession:	P55075-3
Molecular Weight:	22.39 kDa (Predicted and reducing conditions)

QC Testing

Biological Activity:	Measured in a cell proliferation assay using Balb/c 3T3 mouse fibroblasts. The ED50 for this effect is 5-20 ng/mL.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in 20 mM Tris, 300mM NaCl (pH 8.5). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Two of the four human FGF8 splice isoforms, FGF8a and FGF8b, are expressed in the mid-hindbrain region during development. Although the only difference between these isoforms is the presence of an additional 11 amino acids at the N terminus of FGF8b, these isoforms possess remarkably different abilities to pattern the midbrain and anterior hindbrain.

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