

## FGF-1 Protein, Human, Recombinant V2

### General Information

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| Synonyms:             | ECGF;AFGF;ECGFβ;ECGF-beta;ECGFA;FGF-alpha;ECGF-β;FGF-1;FGFA;FGF-α;fibroblast growth factor 1 (acidic);GLIO703;HBGF-1;HBGF1 |
| Protein Construction: | Phe16-Asp155   |
| Species:              | Human  |
| Expression Host:      | E. coli  |
| Accession:            | P05230-1   |
| Molecular Weight:     | 15.83 kDa (Predicted and reducing conditions)  |

### QC Testing

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|----------------------|--|
| Biological Activity: | Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 0.1-0.7 ng/mL (QC Test).<br>Human FGFR1 alpha (IIIc), His Tag captured on CM5 Chip via Anti-His Antibody can bind Human FGF1, No tag with an affinity constant of 42.45 nM as determined in SPR assay (Biacore T200). |
| Purity:              | > 95% as determined by Bis-Tris PAGE;<br>> 95% as determined by HPLC   |
| Endotoxin:           | < 0.1 EU/μg of the protein as determined by the LAL method.  |
| Formulation:         | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). 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 μg/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

Fibroblast Growth Factor 1 (Fgf1), also known as acidic FGF (aFGF), is involved in the regulation of various biological processes, ranging from development to disease pathogenesis. It is a single chain polypeptide and is

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highly expressed in adult brain and kidney tissues. Its expression has been shown to be directed by multiple tissue-specific promoters, which generate transcripts of varying lengths.

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