



Recombinant Human FGF-9

Datasheet

Catalog Number: PR27017

Product Type: Recombinant Protein

Source: E.Coli

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Pro-Leu-Gly.

Description/Molecular Mass: Fibroblast Growth Factor-9 Human Recombinant produced in Sf9 insect cells is a single, glycosylated, polypeptide chain containing 208 amino acids and having a molecular mass of 23 kDa. The FGF-9 is purified by proprietary chromatographic techniques

Protein Content: Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 0.8 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a calibrated solution of FGF-9 as a Reference Standard.

Biological Activity: The ED₅₀ calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by ³H-thymidine uptake) is <0.5 ng/ml, corresponding to a specific activity of 5.5 x 10⁶ Units/mg.

Purity: Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Format: The sterile protein powder is lyophilized with no additives.

Reconstitution: It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-9 Human Recombinant in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Storage: Lyophilized Fibroblast Growth Factor 9 Human Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-9 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please avoid freeze-thaw cycles.

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