

Contents

1. Description

1.1 Background information

1.2 Applications

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Products	Human FGF-9, research grade. Recombinant human fibroblast growth factor 9.						
	<table border="1"> <thead> <tr> <th>Content in µg</th><th>Order no.</th></tr> </thead> <tbody> <tr> <td>5</td><td>130-103-446</td></tr> <tr> <td>20</td><td>130-110-920</td></tr> </tbody> </table>	Content in µg	Order no.	5	130-103-446	20	130-110-920
Content in µg	Order no.						
5	130-103-446						
20	130-110-920						
Biological activity	The ED ₅₀ is ≤5 ng/mL corresponding to an activity of ≥2×10 ⁵ U/mg. Note: The ED ₅₀ is determined by stimulation of thymidine uptake by BaF3 cells expressing FGF receptors or by a proliferation assay using mouse balb/c 3T3 cells.						
Primary structure	Single non-glycosylated polypeptide chain without N-terminal methionine (206 amino acid residues).						
Molecular mass	23.2 kDa.						
Source	Produced in <i>E. coli</i> .						
Product format	Lyophilized from a filtered (0.2 µm) buffer solution.						
Stabilizer	None.						
Purity	>95% as determined by SDS-PAGE analysis.						
Endotoxin level	Low endotoxin (<1.0 EU/µg cytokine) as determined by Limulus Amebocyte Lysate (LAL) assay.						
Storage	Lyophilized Human FGF-9, research grade should be stored at -20 °C. The expiration date is indicated on the vial label. Upon reconstitution aliquots should be stored at -20 °C or below. Avoid repeated freeze-thaw cycles.						
Reconstitution	It is recommended to reconstitute lyophilized Human FGF-9, research grade with deionized sterile-filtered water to a final concentration of 0.1–1.0 mg/mL in a minimal volume of 50 µL. Further dilutions should be prepared with 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) in phosphate-buffered saline.						

1.1 Background information

Fibroblast growth factor 9 (FGF-9), also known as heparin-binding growth factor 9 (HBGF-9), belongs to the FGF family. FGF-9 binds several FGF receptors, FGFR 1c, 2c, 3b, 3c, and 4, and similarly to all FGF members, plays a crucial role as cell mitogen and regulator of cell differentiation. In the nervous system, FGF-9 is secreted by neurons and induces survival signals for glial cells and astrocytes. During embryogenesis FGF-9 is a key factor for gonad development and determination of sexual phenotype, as well as skeletal development. FGF-9 is also expressed by prostatic and brain cancer.

1.2 Applications

Human FGF-9 can be used for a variety of applications, including:

- Developmental studies of tissue differentiation.
- Differentiation of mesenchymal cell culture.
- Maintenance culture of neuronal and glial cells.

Optimal concentration for a specific application should be determined by a dose-response experiment.

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