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Products	Human FGF-10, research grade. Recombinant human fibroblast growth factor 10.						
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10	130-127-859						
25	130-127-858						
Biological activity	The ED ₅₀ is ≤200 ng/mL corresponding to an activity of ≥0.5×10 ⁴ U/mg. Note: The ED ₅₀ was determined by proliferation assay using 4MBR-5 rhesus monkey epithelial cells.						
Primary structure	Single, non-glycosylated polypeptide chain (171 amino acid residues).						
Molecular mass	19.3 kDa.						
Source	Produced in <i>E. coli</i> .						
Product format	Lyophilized from a filtered (0.2 µm) buffer solution.						
Stabilizer	Mannitol and trehalose.						
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-10, 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-10, research grade with deionized sterile-filtered water to a final concentration of 0.1–1.0 mg/mL in a minimal volume of 100 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 10 (FGF-10) belongs to the FGF family, which is involved in embryogenesis and adult tissue development and regeneration. The function of FGF-10 partially overlaps with the one of other FGF members such as FGF-7. It is expressed in mesenchymal cells especially in lungs, and signals via FGFR 2.

FGF-10 influences the development of several tissues including lungs and adipose tissues, and its activity is inhibited by SHH and BMP-4. Human FGF-10 shares 93% amino acid sequence with mouse FGF-10.

1.2 Applications

Human FGF-10 can be used for a variety of applications, including:

- Induction of proliferation and differentiation of epithelial cells.
- Investigation of FGFR 2 signaling.
- ES/iPS cell differentiation.

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

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