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### 1. Description

<b>Products</b>	Human FGF-10, premium grade. Recombinant human fibroblast growth factor 10.										
	<table border="1"> <thead> <tr> <th>Content in µg</th><th>Order no.</th></tr> </thead> <tbody> <tr> <td>10</td><td>130-127-849</td></tr> <tr> <td>25</td><td>130-127-855</td></tr> <tr> <td>100</td><td>130-127-856</td></tr> <tr> <td>1000</td><td>130-127-857</td></tr> </tbody> </table>	Content in µg	Order no.	10	130-127-849	25	130-127-855	100	130-127-856	1000	130-127-857
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10	130-127-849										
25	130-127-855										
100	130-127-856										
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<b>Biological activity</b>	The ED <sub>50</sub> is ≤100 ng/mL corresponding to an activity of ≥1×10 <sup>4</sup> U/mg. Lot-specific activities are stated in the Certificate of Analysis ( <a href="http://www.miltenyibiotec.com/certificates">www.miltenyibiotec.com/certificates</a> ). <b>Note:</b> The ED <sub>50</sub> was determined by proliferation assay using 4MBr-5 rhesus monkey epithelial cells.										
<b>Primary structure</b>	Single, non-glycosylated polypeptide chain (171 amino acid residues).										
<b>Molecular mass</b>	19.3 kDa.										
<b>Source</b>	Produced in <i>E. coli</i> .										
<b>Product format</b>	Lyophilized from a filtered (0.2 µm) buffer solution.										
<b>Stabilizer</b>	Mannitol and trehalose.										
<b>Purity</b>	>95% as determined by SDS-PAGE analysis.										
<b>Endotoxin level</b>	Low endotoxin (<0.1 EU/µg cytokine) as determined by Limulus Amebocyte Lysate (LAL) assay.										
<b>Storage</b>	Lyophilized Human FGF-10, premium 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.										
<b>Reconstitution</b>	It is recommended to reconstitute lyophilized Human FGF-10, premium 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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