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<b>Products</b>	Mouse FGF-2, research grade. Recombinant mouse fibroblast growth factor 2.						
	<table border="1"> <thead> <tr> <th>Content in µg</th><th>Order no.</th></tr> </thead> <tbody> <tr> <td>10</td><td>130-105-787</td></tr> <tr> <td>50</td><td>130-105-786</td></tr> </tbody> </table>	Content in µg	Order no.	10	130-105-787	50	130-105-786
Content in µg	Order no.						
10	130-105-787						
50	130-105-786						
<b>Biological activity</b>	The ED <sub>50</sub> is ≤1 ng/mL corresponding to an activity of ≥1×10 <sup>6</sup> U/mg. <b>Note:</b> The ED <sub>50</sub> is determined by proliferation assay using BALB/c 3T3 cells.						
<b>Primary structure</b>	Single non-glycosylated polypeptide chain without N-terminal methionine (145 amino acid residues).						
<b>Molecular mass</b>	16.3 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>	None.						
<b>Purity</b>	>95% as determined by SDS-PAGE analysis.						
<b>Endotoxin level</b>	Low endotoxin (<1.0 EU/µg cytokine) as determined by Limulus Amebocyte Lysate (LAL) assay.						
<b>Storage</b>	Lyophilized Mouse FGF-2, 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.						
<b>Reconstitution</b>	It is recommended to reconstitute lyophilized Mouse FGF-2, 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

FGF-2 (or basic FGF) stands for fibroblast growth factor 2, and belongs to the family of heparin-binding growth factors. It functions as a wide-spectrum mitogenic, angiogenic, and neurotropic factor and stimulates the proliferation of a wide variety

of cells including mesenchymal, neuroectodermal, and endothelial cells. FGF-2 has been implicated in a multitude of physiological and pathological processes, including limb development, angiogenesis, wound healing, and tumor growth.

#### 1.2 Applications

Mouse FGF-2 can be used for a variety of applications including:

- Differentiation of neural cells starting from ES and iPS cell cultures.
- Cultivation of neurons.
- Investigation of embryonic development.
- Analysis of FGFR signaling.
- Proliferation of spermatogonial stem cells.

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

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