

## Human/Murine FGF-8b

Human and Murine Fibroblast Growth Factor-8b, recombinant

Synonyms: Fibroblast Growth Factor-8, AIGF, HBGF-8, KAL-6

**PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING**

Size	Order #	Lot #	Expiry Date
5 µg	1376.950.005		
25 µg	1376.950.025		
100 µg	1376.950.100		
1 mg	1376.950.199		

Please enquire for bulk quantities and other vial sizes

### Description

Recombinant Human/ Murine FGF-8b is a 194 amino acid protein, with a molecular mass of 22,5 kDa. Fibroblast Growth Factor-8B (FGF-8b) is a secreted, heparin-binding growth factor belonging to the fibroblast growth factor (FGF) family. FGF family members possess extensive mitogenic and cell survival functions, and are involved in various biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. There are 4 known alternate spliced forms of FGF-8: FGF-8A, FGF-8B, FGF-8E and FGF-8F. The human and murine FGF-8A and B are identical, unlike human and mouse FGF-8E and F, which are 98% identical. FGF-8 targets mammary carcinoma cells and other cells expressing the FGF receptors. FGF8 over expression increases tumor growth and angiogenesis. The adult expression of FGF-8 gene is restricted to testes and ovaries. FGF8 functions as an embryonic epithelial factor.

• <b>Biological Activity</b>	≥ 1.1 x 10 <sup>6</sup> units/mg
• <b>Source</b>	<i>E. Coli</i>
• <b>Purity</b>	≥ 95 % (SDS-PAGE, HPLC)
• <b>Endotoxin level</b>	≤ 0.1ng/µg (≤ 1EU/µg)
• <b>Stabilizer</b>	None
• <b>Buffer</b>	TFA (0,1%)*
• <b>Physical state</b>	Sterile filtered, lyophilized

### Biological Activity

The ED<sub>50</sub> of ≤ 0,9 ng/ml was determined by the dose-dependent stimulation of proliferation of NR6-R 3T3 cells. It corresponds to a specific activity of ≥ 1.1 x 10<sup>6</sup> units/mg.

### Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week or in working aliquots at -20°C to -80°C. Working aliquots should be at the highest practical concentration. For long term storage we recommend to add at least 0.1% HSA (order number: 2835.955.xyz or 2835.958.xyz) or BSA.

### Stability

The lyophilized protein is stable at room temperature for up to 1 month and at least until the lot specific expiry date if kept below -18°C. Reconstituted FGF-8b should be stored in working aliquots at -20°C to -80°C if possible with carrier protein. **Please avoid repeated freeze-thaw cycles.**

### Amino Acid Sequence

MQTVQSSPN FTQHVREQSL VTDQLSRRLI RTYQLYSRTS GKHVQLANK RINAMAEDGD PFAKLIVETD  
TFGSRVVRVG AETGLYICMN KKGKLIAKSN GKGKDCVFTE IVLENNYTAL QNAKYEGWYM AFTRKGRPRK  
GSKTRHQRE VHFMKRLPRG HHTTEQSLRF EFLNYPPFTR SLRGSQRTWA PEPR

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

#### ORDERING

Tel.: +49 40 43208448-0  
order@active-bioscience.de  
www.active-bioscience.de

#### TECHNICAL SUPPORT

Tel.: +49 40 43208448-11  
support@active-bioscience.de

Active Bioscience GmbH

Oberaltenallee 8  
D-22081 Hamburg  
HRB 98170 Amtsgericht Hamburg