

Product Information

HumanKine™ Fibroblast Growth Factor-8b, human recombinant, expressed in HEK 293 cells

Catalog Number **H5291**
Storage Temperature $-20\text{ }^{\circ}\text{C}$

Synonym: FGF-8b

Product Description

HumanKine™ Fibroblast Growth Factor-8b, expressed in human 293 cells is a glycosylated monomer with an apparent molecular mass of 30–45 kDa due to glycosylation. Production in human 293 cells offers authentic glycosylation, which is absent when this cytokine is expressed in *E. coli*. Glycosylation contributes to stability in cell growth media and other applications.

FGF-8b belongs to the FGF protein family. FGF-8b is important in embryogenesis, in pathways that lead to left-right determination and coordinate the vertebral segmentation process, and in processes that activate Homeobox genes. There are several isoforms of FGF-8 produced by alternative splicing, FGF-8b is the predominant isoform.

This product is lyophilized from a solution of 10 mM Tris-HCl, pH 7.4, with 800 mM NaCl

ED₅₀: $\leq 120\text{ ng/mL}$

The specific activity is determined by the dose-dependent stimulation of the proliferation of the BALB/3T3 cell line.

Purity: $\geq 95\%$

Endotoxin level: $\leq 1\text{ EU}/\mu\text{g}$

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile water containing 0.1% endotoxin-free recombinant human serum albumin

Storage/Stability

Store the product at $-20\text{ }^{\circ}\text{C}$. The lyophilized product remains active for one year at $-20\text{ }^{\circ}\text{C}$.

Upon reconstitution, the cytokine can be stored at $2\text{--}8\text{ }^{\circ}\text{C}$ for short term only, or at $-20\text{ }^{\circ}\text{C}$ to $-80\text{ }^{\circ}\text{C}$ in aliquots for long term. Avoid repeated freeze-thaw cycles.

References

1. Mattila, M.M. et al., Cytokine Growth Factor Rev., **18**, 257-266 (2007).
2. Lee, S.Y. et al., Molecules and Cells, **10**, 684-691 (2000).

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