


CA 104952	HumanKine™ FGF-8b		
	Prod. No. S2310-10UG For Research Use Only Not intended for use in humans or animals	lot #: PR1XXXXXX XXXX	Orders & Support Web

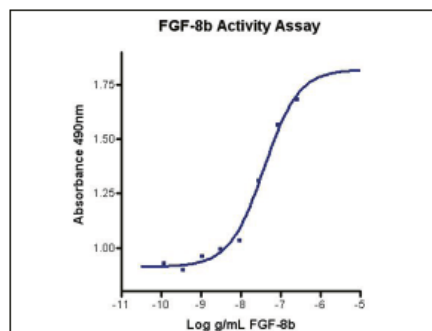
Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	15 to 60 kDa, monomer, glycosated
Activity	Typically 30 to 45 ng/uL ED50
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

Background:

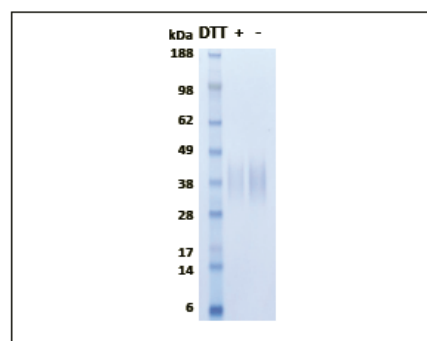
Recombinant human FGF-8b expressed in engineered human cells. FGF-8b belongs to the FGF protein family and is a 30 to 45 kDa glycosylated monomer. FGF-8b is important in embryogenesis, in pathways that lead to left-right determination, that coordinate the vertebral segmentation process and in processes that activate Homeobox genes. There are several isoforms of FGF-8 produced by alternative splicing, FGF-8b is the predominant isoform.

Note: Representative data are shown below (not Lot-specific).

A. Activity Assay



B. SDS-PAGE



Formulation:

Lyophilized from a 0.2 micron filtered solution in 10mM Tris-HCl pH 7.4, 800mM NaCl.

Reconstitution:

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 and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

Quality Control Testing

Assay:

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

Purity Confirmation:

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

References:

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

**All HumanKine™ cytokines are expressed in HEK 293 cells. HumanKine™ is a trademark of HumanZyme Inc.*

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