


CA 1050	<b>HumanKine™ FGF basic</b>			
	<b>Prod. No. S2308-10UG</b>	<b>lot #: PR1XXXXXX XXXX</b>	Orders & Support	866 372-7442 support@primorigen.com
	<i>For Research Use Only Not intended for use in humans or animals</i>		Web	www.primorigen.com

<b>Pack Size</b>	10 µg
<b>Species</b>	Human
<b>Expression System</b>	HEK 293*
	Animal-derived product free
<b>Molecular Mass</b>	17 kDa, monomer, glycosylated
<b>Activity</b>	Typically 0.1 to 0.5 ng/uL
<b>Purity</b>	≥ 95%
<b>Endotoxin</b>	≤ 1 EU/µg

### Background:

Recombinant human FGFbasic is expressed in engineered human cells. FGFbasic is a heparin binding growth factor and a critical growth factor for human embryonic stem cells to remain in an undifferentiated state during the cell culture. It's function plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. FGFbasic is consisted of 154 amino acids and a 17 kDa, non-glycosylated monomer.

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

### Formulation:

Lyophilized from a 0.2 micron filtered solution in PBS.

### Reconstitution:

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS 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 3T3 cell line.

#### Purity Confirmation:

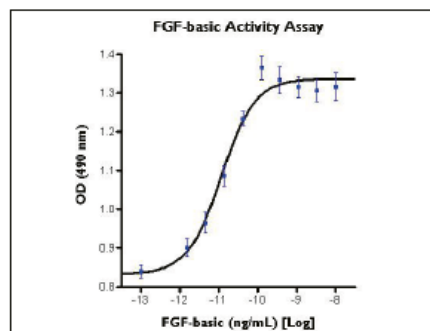
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

#### References:

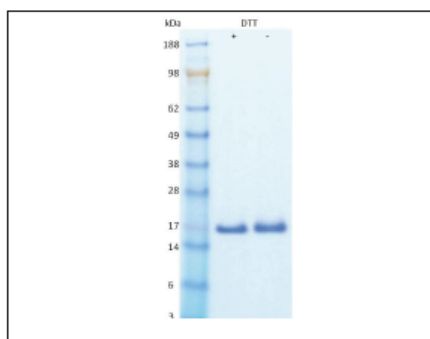
Abraham, J.A., et al (1986) EMBO J 5, 2523-2528  
 Parts, H., et al (1989) PNAS 86, 1836-1840  
 Xia, L., et al (2002) World J Gastroenterol 8, 455-458

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

## A. Activity Assay



## B. SDS-PAGE



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