

HumanKine[®] FGfbasic-TS (Recombinant Human)



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
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Product Description

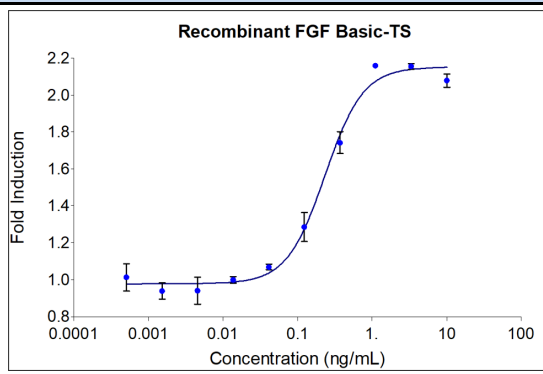
Recombinant human FGfbasic-TS™ is expressed in human 293 cells. FGfbasic is a heparin-binding growth factor and critical for human embryonic stem cells to remain in an undifferentiated state during cell culture. FGfbasic-TS™ is a protein engineered FGfbasic to enhance its thermo-stability without modification of biological function. FGfbasic-TS™ consists of 154 amino acids as a 17 kDa, non-glycosylated monomer.

Alternative Names	Basic fibroblast growth factor, BFGF, FGF basic, FGF basic-TS, FGF2, FGFB, FGfbasic, FGfbasic-TS, HBGF 2
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived FGfbasic-TS protein

Specifications

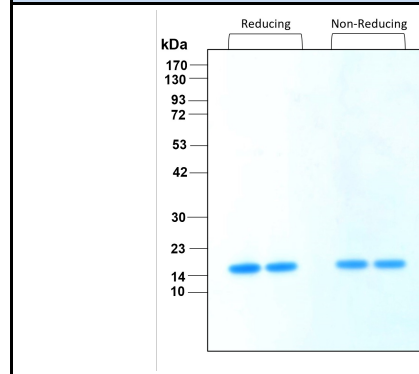
Test	Method	Specification
Activity	Dose-Dependent stimulation of proliferation of NIH3T3 cells in Defined Media	0.4-2.5 ng/mL in NIH3T3 cells in defined media.
Molecular Mass	SDS-PAGE	17 kDa reduced and non-reduced, monomer, non-glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human FGfbasic-TS (HZ-1285) stimulates dose-dependent proliferation of the HDFa human primary fibroblast cell line. Cell number was quantitatively assessed by Promega CellTiter 96® cell viability reagent. HDFa cells were treated with increasing concentrations of recombinant FGfbasic-TS for 48 hours. The EC50 was determined using a 4-parameter non-linear

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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