

HumanKine® FGFbasic-TS (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

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.

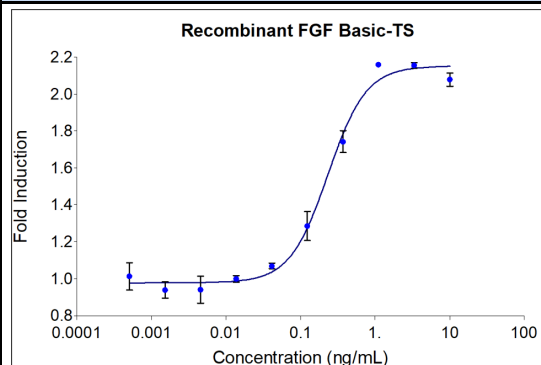
Alternative Names Basic fibroblast growth factor, BFGF, FGF basic, FGF basic-TS, FGF2, FGFB, FGFb, FGFbasic, FGFbasic-TS, HBGF 2

Source Human Embryonic Kidney cells (HEK293). HEK293-derived FGFbasic-TS protein

Specifications

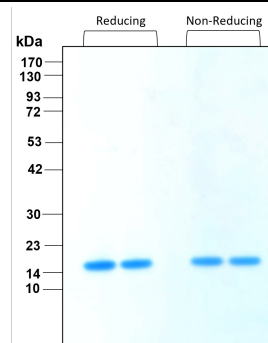
| Test | Method | Specification |
|----------------|--|--|
| Activity | Dose-Dependent stimulation of proliferation of NIH3T3 cells in Defined Media | 0.4-2.5 ng/mL EC50 in NIH3T3 cells in defined Media. |
| Molecular Mass | SDS-PAGE | 17 kDa, monomer, non-glycosylated |
| Purity | SDS-PAGE | >95% |
| 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 in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). |

| 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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