

# Heat Stable Recombinant Human FGFbasic

**Cat# HST-HS2**

## Product Specifications

- Expression of Human Proteins in Human Cells
- Extreme low Endotoxin
- High Purity
- Animal Free and Xeno Free
- Tag Free
- Heat Stable

**Source:** Human cells derived

**Structure:** Non-glycosylated monomer

**Purity:** >95% by SDS-PAGE

**Endotoxin Level:** <0.5EU/ug

**Molecular Weight:** 17kDa

**Formulation:** Lyophilized from a 0.2µm filtered solution in PBS without carrier protein

## Activity Assay

The activity was measured by its ability to stimulate the proliferation of 3T3 mouse fibroblast cells.

## 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.

## Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from

date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80°C under sterile conditions after reconstitution.

## Protein Description

FGF basic is a non-glycosylated heparin binding growth factor that belongs to the fibroblast growth factor family. Native FGFb has a half-life of <8 hours, and is highly unstable under normal cell culture conditions. However Heat stable recombinant Human FGFb has greater stability in cell culture, exhibiting 1/3 at 37°C after 72 hours. Researchers can use less to maintain the same growth rate. Heat Stable FGF basic plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration.

## References

Ornitz DM, et al. (1996) J. Biol. Chem. 271, 15292-15297.

Abraham JA, et al. (1986) Cold Spring Harb. Symp. Quant. Biol. 51, 657-668.