



Recombinant Human Basic Fibroblast Growth Factor Thermostable (rhbFGF-TS)

Catalog #104-02ts

Description

Basic Fibroblast Growth Factor (bFGF) is a member of the FGF family of mitogenic peptides. bFGF is extremely efficient at inducing DNA synthesis in a variety of cell types from mesoderm and neuroectoderm lineages. Use of native bFGF in cell biology however, is limited by the fact that bFGF rapidly degrades at physiological temperatures. ScienCell's Recombinant Human Basic Fibroblast Growth Factor Thermostable is engineered for greater stability, which is bioactive longer than native bFGF. By using rhbFGF-TS, supplementation with artificially high concentrations of FGF2 or daily media changes with fresh FGF2 are not necessary. The rhbFGF-TS shares more than 97% amino acid identity with the 155-amino-acid human bFGF and leaves the FGF receptor binding sites unmodified.

Specifications

Synonyms:	FGF-2, HBGF-2, Prostatropin, Fibroblast Growth Factor-basic (FGFb)
AA Sequence:	> 97% sequence homology to native human bFGF
Source:	<i>Escherichia coli</i>
Molecular Weight:	17.1 kDa, a single non-glycosylated polypeptide chain containing 155 amino acids
Purity	> 95%
Physical Appearance:	White lyophilized powder.
Endotoxin:	<0.1 ng/μg of protein (<1 EU/μg)
Biological Activity:	Biological activity fully tested using Human umbilical vein endothelial cells (HUVECs).

Formulation

Lyophilized from a 0.2μm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

Reconstitution

Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Shipping and Storage

Gel pack. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8 °C for up to one week. For maximal stability, aliquot and store at -20 °C. Avoid repeated freeze/ thaw cycles.

Usage

rhbFGF7S is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.