

DATASHEET

Name	FGF-A-SF9, REC.HU		
Product	Fibroblast Growth Factor-acidic-Sf9 Insect Cells derived, Recombinant Human	Article-No.	40106
Formulation	Sterile filtered protein solution (1.8mg/ml) contains 20mM Tris HCl pH=7.9, 100mM KCl, 0.2mM DTT and 20% Glycerol	Storage	Freezer at -20°C Prevent freeze-thaw cycles

Introduction:

Recombinant Human Fibroblast Growth Factor-acidic is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Three alternatively spliced variants encoding different isoforms have been described. The heparin-binding growth factors are angiogenic agents in vivo and are potent mitogens for a variety of cell types in vitro. There are differences in the tissue distribution and concentration of these 2 growth factors.

Description:

Recombinant Human Fibroblast Growth Factor-acidic produced in Sf9 insect cells is a single, glycosylated, polypeptide chain containing 140 amino acids and having a molecular mass of 15803 Dalton. The rHuFGF-a Sf9 is purified by proprietary chromatographic techniques.

Source: Baculovirus

Purity: < 95.0% (RP-HPLC & SDS-PAGE)

Stability:

rHuFGF-a Sf9, although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Amino acid sequence:

The sequence of the first five N-terminal amino acids as determined and was found to be Met-Phe-Asn-Leu-Pro.

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Biological Activity:

The ED₅₀, calculated by the dose-dependent proliferation of BAF3 cells expressing FGF receptors (measured by ³H-thymidine uptake) is <10 ng/ml, corresponding to a specific activity of 10⁵ Units/mg.

Usage:

Our products are intended for lab research only. Not for human, animal or diagnostic use.