

PRODUCT DATA SHEET

Recombinant Human Fibroblast Growth Factor-Acidic, Sf9 (rhFGF-1)

Introduction:	Acidic fibroblast growth factor 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.
Product Description:	Fibroblast Growth Factor-1 Human Recombinant (FGF-1) produced in Sf9 insect cells is a single, glycosylated, polypeptide chain containing 140 amino acids and having a molecular mass of 15803 Dalton.
Source:	<i>Baculovirus</i>
Physical Appearance:	Sterile Filtered liquid formulation.
Cat No:	3HCYT-364
Unit Size:	2 µg 10 µg 1 mg
Purification Method:	Purified by proprietary chromatographic techniques. Purity determined by RP-HPLC and SDS-PAGE
Purity:	Greater than 95.0 %
Formulation:	The sterile protein solution (1.8 mg/ml) contains 20 mM Tris HCl pH 7.9, 100 mM KCl, 0.2 mM DTT and 20 % glycerol.

This product is for research use only. Not approved for human use.

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Stability:	Fibroblast Growth Factor-acidic 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). Please prevent freeze-thaw cycles.
Biological Activity:	The ED ₅₀ , calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by ³ H-thymidine uptake) is <10 ng/ml, corresponding to a specific activity of 100,000 Units/mg.
Amino Acid Sequence:	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Phe-Asn-Leu-Pro.