FGF1
Recombinant Human Fibroblast Growth Factor 1 Sf9

Catalog No.	CRF026A	**Quantity:**	2 µg
	CRF026B		10 µg
	CRF026C		1.0 mg

Alternate Names: AFGF, ECGF, ECGF-beta, ECGFA, ECGFB, FGF-1, FGF-alpha, FGFA, HBGF-1, HBGF1

Description: 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.

Recombinant human Fibroblast Growth Factor 1 is a single, glycosylated, polypeptide chain containing 140 amino acids and purified by proprietary chromatographic techniques.

Concentration: 1.8 mg/ml

GeneID: 2246

Source: Sf9 insect cells

Molecular Weight: 15.803 kDa

Formulation: Sterile filtered liquid in 20 mM Tris-HCl, pH 7.9 + 100 mM KCl + 0.2 mM DTT + 20% glycerol

Purity: > 95% as determined by SDS-PAGE and RP-HPLC analyses

Endotoxin Level: < 0.1 ng/µg of FGF1

Biological Activity: Calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by ^{3}H-thymidine uptake). The ED_{50} is <10 ng/ml.

Specific Activity: 10^{5} Units/mg.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids is Met-Phe-Asn-Leu-Pro.

Storage & Stability: Store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. **Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.**

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