Recombinant Bovine Basic Fibroblast Growth Factor (rbbFGF)
Catalog Number: 154-02

Description	Basic Fibroblast Growth Factor (bFGF) is a member of the FGF family of mitogenic peptides which is comprised of at least 23 proteins. FGF signaling factors play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. It was originally named bFGF based upon its chemical properties and to distinguish it from acidic fibroblast growth factor.
Synonyms	FGF-2, Fibroblast Growth Factor basic (FGFb)
AA Sequence	MTMITNSSSV PGDPLESMAA GSITTLPALP EDGGSGAFPP GHFKDPKRLY CKNGGFFLRI HPDGRVDGVR EKSDPHIKLQ LQAEERGVVS IKGVCANRYL AMKEDGRLLA SKCVTDECFF FERLESNNYN TYRSRKYSSW YVALKRTGQY KLGPKTGPGQ KAILFLPMSA KS
Source	*Escherichia coli*
Molecular Weight	Approximately 18.5 kDa, a single non-glycosylated polypeptide chain containing 172 amino acids
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active. The ED_{50} is < 1.0ng/ml, corresponding to a specific activity of 1.0×10^6 Units/mg, as determined by the proliferation of BALB/c 3T3 cells.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4, containing 4% mannitol.
Endotoxin	< 1EU/μg of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage	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	This product is for research use only. It is not approved for use in humans, animals, or *in vitro* diagnostic procedures.