

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 ED₅₀ is < 1.0ng/ml, corresponding to a specific activity of

1.0×10⁶ Units/mg, as determined by the proliferation of BALB/c 3T3 cells.

Physical Appearance White lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, containing 4%

mannitol.

Endotoxin $< 1EU/\mu g$ 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.