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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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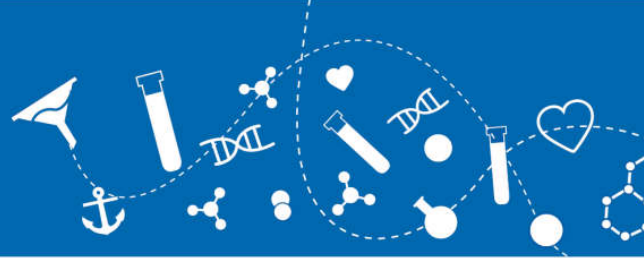
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Fibroblast Growth Factor-acidic, rat recombinant (rrFGF-acidic)

Catalog No: 97450
Lot No: XXXXX
Source: *E. coli*
Synonyms: Fibroblast growth factor 1, FGF-1, Acidic fibroblast growth factor, aFGF, Heparin-binding growth factor 1, HBGF-1, Fgf1, Fgfa, HBGF1

Background

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.

Description

Fibroblast Growth Factor-acidic rat recombinant (FGF-1) produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 141 amino acids and having a molecular mass of 15.9 kDa. FGF acidic is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized at a concentration of 1 mg/ml in 5 mM Na₂PO₄, pH 7.5 and 50 mM NaCl.

Solubility

It is recommended to reconstitute the lyophilized FGF-acidic in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Fibroblast Growth Factor-1, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-a should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by SDS-PAGE.

Amino Acid Sequence

MFNLPLGNYK KPQLLYCSNG GHFLRILPDG TVDGTDRSD QHIQLQLSAE SAGEVYIKGT ETGQYLAMDT EGLLYGSQTP
NEECLFLERL EENHYNTYTS KKHAENWFV GLKKNNGSCKR GPRTHYGQKA ILFLPLPVSS D



Activity

The ED50 as determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells, is less than 0.2 ng/ml corresponding to a specific activity of 5×10^6 IU/mg.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.