

Human Fibroblast Growth Factor 1 (FGF-1 / acidic FGF)

03-003 50 µg, 03-003-5 5 x 50 µg

FGF-1 (acidic FGF) is a member of the fibroblast growth factor (FGF) family, which binds heparin. 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 (ref.).

Applications

1. Use as a supplement in serum-free or reduced serum media for culture of mammalian cells.
2. Studies of the human FGF1 receptor, transmembrane signaling and protein phosphorylation
3. Western blotting control for anti-EGF antibodies
4. Widely used in cosmetics, such as whitening, anti-crinkle, anti-aging, etc.

Product: Full length recombinant mature FGF-1 (15.8 kDa, 140 amino acids) expressed in E. coli.

Activity: The ED50 as determined by a cell proliferation assay using MTS assay kit (CellTiter 96, Promega) with Balb/c3T3 cells was < 10 pg/ml, corresponding to a specific activity of < 1 x 10⁸ units/mg.

Purity: >98% as determined by SDS-PAGE (CBB staining)

Form: 1.0 mg/ml in PBS (10mM Na-phosphate, 150mM NaCl) pH7.2, 50% glycerol, filter-sterilized

Storage: -20 (for long-term storage, -70)

References: Zakrzewska M et al. FGF-1: from biology through engineering to potential medical applications. Crit Rev Clin Lab Sci. 2008;45(1):91-135. Review.PMID: 18293181 [PubMed]

Database Link: GeneID: Gene Sequence: Amino Acid Sequence:

Related product:

03-001 human EGF

[03-005 human FGF-7](#)

*Inquire for the bulk supply of FGF-1 with info@bioacademia.co.jp



Fig. SDS-PAGE of human EGF1