

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 FGF-1 receptor, transmembrane signaling and protein phosphorylation
3. Western blotting control for anti-EGF-1 antibodies
4. Widely used in cosmetics, such as whitening, anti-wrinkle, anti-aging, etc.

Specification

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 (Cell Titer 96, Promega) with Balb/c 3T3 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: 2.0 mg/ml in PBS (10mM Na-phosphate, 150mM NaCl) pH7.2, 50% glycerol, filter-sterilized

Storage: -20°C or for long-term storage, -70°C

Data Link: Gene ID: [2246](#), Gene Sequence: [BC032697](#),
Amino Acid Sequence: [AAH32697](#)

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

Fig.1 SDS-PAGE of human FGF-1

