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

03-003 50 µg, 03-003-5 5 x 50 µg

Shipping and Storage: Ship at 4℃ and store at -20℃ (for a year or longer term storage, -80℃)

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/c3T3 cells was < 10 pg/ml, corresponding to a specific activity of < 1 x 10^8 units/mg.

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.

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

Background: 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.).

Data Link: UniProtKB:P05230 Gene ID: 2246,

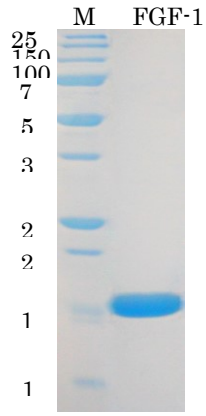

Fig. SDS-PAGE of human FGF-1

Calculated mass is 15.8 kDa

Useful 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

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Related products

03-001 human EGF

03-005 human FGF-7

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