COSMO BIO CO., LTD.
Inspiration for Life Science

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Catalog No. BAM-03-003-EX

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

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.).

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

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.

Size: 50 μg

Form: 2.0 mg/ml in PBS (10mM Na-phosphate, 150mM NaCl) pH7.2, 50% glycerol, filter-sterilized

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

Measurement of the 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.

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

Data Link
GeneID: 2246
Gene Sequence: BC032697
Amino Acid Sequence: AAH32697

References:
1) 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

Related Products

BAM-03-001-EX	human EGF
BAM-03-005-EX	human FGF-7

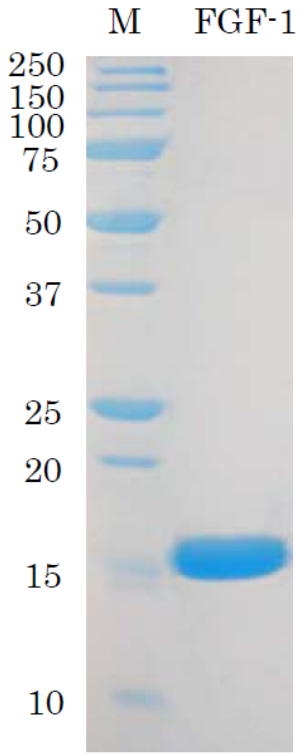

Fig.1 SDS-PAGE of human FGF-1

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