Datasheet for ABIN6699828

FGF1 Protein

2 Images

Go to Product page

Overview

Quantity:	10 µg
Target:	FGF1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Fibroblast Growth Factor acidic Recombinant Protein
Purification:	Fibroblast Growth Factor acidic purity was determined to be greater than 97% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells and is typically 2.0 ng/mL.

Target Details

Target:	FGF1
Alternative Name:	FGF1 (FGF1 Products)
Background:	Synonyms: Heparin-binding growth factor 1 (HBGF-1), Beta-endothelial growth factor, ECGF-beta, acidic fibroblast growth factor (aFGF)

Target Details

	Background: Fibroblast Growth Factors (FGFs) are a 22 member family of proteins known to be involved in angiogenesis, wound healing and embryonic development. As a family, they bind to heparin and signal through four receptor tyrosine kinases called, FGFR1, 2, 3 and 4. FGF-acidic, or FGF-1, is a particularly potent inducer of DNA synthesis and has chemotactic activities. Recombinant human FGF acidic is a non-glycosylated protein, containing 141 amino acids, with a molecular weight of 16 kDa.
UniProt:	P05230
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Application Notes:	Other: User Optimized Application_Note: Fibroblast Growth Factor acidic Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Fibroblast Growth Factor acidic in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

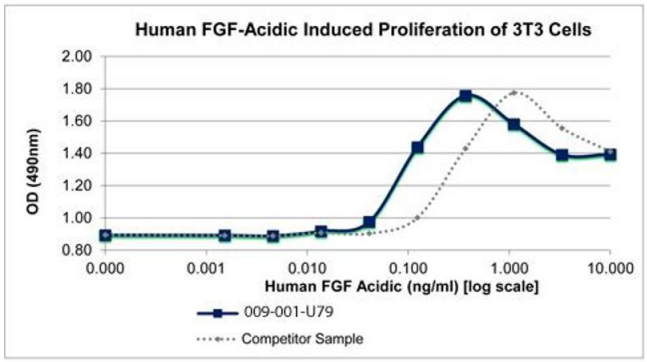
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 10 µL (10-100 µL)
Buffer:	Buffer formation: 10 mM sodium phosphate, 150 mM sodium sulfate, pH 7.5.
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

Handling

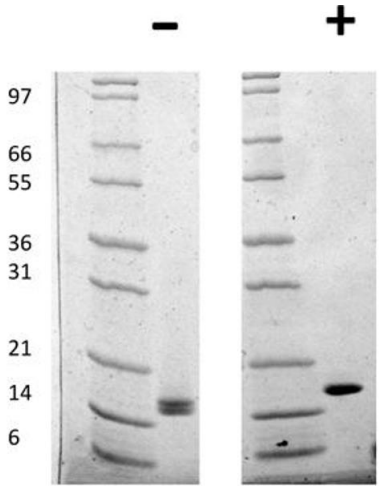
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Fibroblast Growth Factor acidic Recombinant Protein Bioactivity of Human Fibroblast Growth Factor acidic Recombinant Protein. Serial dilutions of Human FGF Acidic, starting at 10 ng/mL, were added to 3T3 cells in the presence of 10 ug/mL heparin. Cell proliferation was measured after 44 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human FGF Acidic is 0.8-0.12 ng/mL. This value is comparable with the typical expected range of < 1 ng/mL.



SDS-PAGE

Image 2. SDS-PAGE of Human Fibroblast Growth Factor acidic Recombinant Protein SDS-PAGE of Human Fibroblast Growth Factor acidic Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human FGF acidic in non-reducing conditions . Lane 3: Molecular weight marker. Lane 4: 1 µg Human FGF acidic in reducing conditions (+). Human FGF acidic has a predicted MW of 15.8 kDa.