

Recombinant Human FGF1 Protein

Cat. No. FGF1-038H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FGF1 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	822
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. 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. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Multiple alternatively spliced variants encoding different isoforms have been described.
Form	Solution
Molecular Mass	15 kDa
AA Sequence	MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRC RLRDDVQSINWLRDGVQLAESNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDT TYFSVNVSDALPSEDDDDDDSSSEEKETDNTKPNRMPVAPYWTSPEKMEKKLH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AVPAAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVPS
 DKGNYTCIVENEYGSINHTYQLDVVERSPHRPILQAGLPANKTVALGSNVEFMCKVY
 SDPQPHIQWLKHIEVNGSKIGPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAG
 EYTCLAGNSIGLSHHSAWLTVLEALEERPAVMTSPLYLEIIIIYCTGAFLISCMVGSVIVY
 KMKSGTKKSDFHSQMAVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLSSSG
 TPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFGQVVLAEAIGLDKDKPNRVT
 KVAVKMLKSDATEKDLSLISEMEMMKMIGKHKNIIINLLGACTQDGPLYVIVEYASKG
 NLREYLQARRPPGLEICYNPSHNPEEQSSKDLVSCAYQVARGMEYLASKKCIHRD
 LAARNVLVTEDNVMKIADFGGLARDIHHIDYYKTTNGRLPVKWMapeALFDRIYTHQS
 DVWSFGVLLWEIFTLGGSPYPGVPVEELFKLLKEGHRMDKPSNCTNELYMMMRDC
 WHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDLSMPLDQYSPSPDTRSSSTCSSGE
 DSVFSHEPLPEEPCLPRHPAQLANGGLKRR

Purity	> 90%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Solution for appropriate storage temperature

GENE INFORMATION

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Gene Name	FGF1 fibroblast growth factor 1 (acidic) [Homo sapiens (human)]
Official Symbol	FGF1
Synonyms	FGF1; fibroblast growth factor 1 (acidic); FGFA; fibroblast growth factor 1; AFGF; ECGF; ECGF beta; ECGFA; ECGFB; endothelial cell growth factor; alpha; beta; FGF alpha; GLIO703; HBGF1; heparin binding growth factor 1; heparin-binding growth factor 1; beta-endothelial cell growth factor; endothelial cell growth factor, beta; endothelial cell growth factor, alpha; FGF-1; HBGF-1; ECGF-beta; FGF-alpha;
Gene ID	2246
mRNA Refseq	NM_000800
Protein Refseq	NP_000791
MIM	131220
UniProt ID	P05230

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