

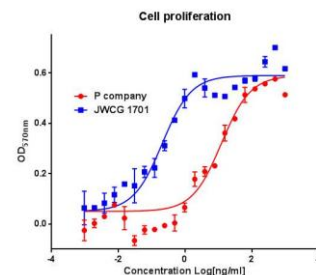
DATA SHEET

Product Information

Product Name	: Recombinant Human Fibroblast Growth Factor 1 (rhFGF1)
Synonyms	: Basic fibroblast growth factor, FGFa, Heparin binding growth factor 1, HBGF1, FGF acidic, endothelial cell growth factor
Description	: FGF1 Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Affinity between fibroblast growth factors (FGFs) and their receptors is increased by heparan sulfate glycosaminoglycans that function as coreceptors. Found in a complex with FGFBP1, FGF1 and FGF2. Interacts with FGFBP1. Part of a Cu(2+)-dependent multiprotein aggregate containing FGF1, S100A13 and SYT1. Interacts with SYT1. Interacts with S100A13. Belongs to the heparin-binding growth factors family. 2 isoforms of the human protein are produced by alternative splicing. (Ref. From UniProtKB)
NCBI Accession No.	NM_000800.4
Amino acid sequence	: MFNLPPGNYKKPKLLYCSNGGHFLRILPDGTVDGTDRSDQHIQLQLSAE SVGEVYIKSTETGQYLAMDTDGLLYGSQTPNEECLFLERLEENHYNTYIIS KKHAEKNWFVGLKKNNGSCKRGPRTYHGQKAILFLPLPVSSD*
Molecular Mass	: 15.9 kDa (141 aa)
Protein Tags	: No tagging
Source	: <i>E. coli</i> .
Cat. No.	: HFG1-10, HFG1-25, HFG1-50, HFG1-100, HFG1-250, HFG1-500
Storage	: Should be at ≤ -70 °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
Cross Reactivity	: Cow, Dog, Frog, Hamster, Monkey, Mouse, Pig, Rabbit, Rat, Sheep

Quality Control

Test items	Specifications
Appearance	: Clear, colorless liquid
Purity	: Greater than 98 % by RP-HPLC and SDS-PAGE
Specificity	: Using Western blot, detection
Concentration	: 0.1 mg/ml, Bradford method Determined by proliferation of Balb/3T3 indicator cells.
Biological Activity	: The ED50 is 0.2068ng/ml, corresponding to a specific activity of <0.5ng/ml
Endotoxin	: Less than 1.0 EU/ μ g as determined by the LAL method
Formulation	: 50mM sodium citrate-citric acid (pH 5.0~6.0) without preservative or carrier proteins.
Stability	: Stable for up to 12 months at -70 °C. Stable for a month at 4 °C.
Sterility	: Sterilized through a 0.2 μ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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