

Human FGF basic / FGF2 (Stem Cell Grade) - Purified

Alternate names:	BFGE, FGFB, Fibroblast growth factor 2 (basic), HBGF-2, HBGF2, Heparin-binding growth factor 2
Catalog No.:	AR10042PU-L
Quantity:	1 mg
Background:	FGF-basic 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. Three alternatively spliced variants encoding different isoforms have been described. The heparin-binding growth factors are angiogenic agents in vivo and are potent mitogens for a variety of cell types in vitro. There are differences in the tissue distribution and concentration of these 2 growth factors.
Uniprot ID:	P09038
NCBI:	NP_001997.5
GenID:	2247
Species:	Human
Source:	E. coli
Format:	State: Lyophilized purified protein Purity: > 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Buffer System: Lyophilized from a concentrated (1 mg/ml) sterile solution containing 5mM Na-PO₄ and 100mM NaCl. Reconstitution: Restore in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Description:	Fibroblast Growth Factor-b Human Recombinant (FGF-2) produced in <i>E.coli</i> is a single, non-glycosylated, polypeptide chain containing 155 amino acids and having a Molecular Mass of 17353 Dalton. The FGF-basic is purified by proprietary chromatographic techniques. Molecular weight: 17353 Da

Storage:

Although stable at RT for 3 weeks, it should be stored desiccated below -18°C.
Upon reconstitution it should be stored at 2-8°C between 2-7 days and for future use below -18°C.
Please prevent freeze-thaw cycles.
Shelf life: One year from despatch.