Overview

Synonyms	FGF-8b, AIGF, HBGF
Description	**Fibroblast Growth Factor-8 (FGF-8)** is a heparin-binding growth factor of the FGF family. There are 4 known forms of FGF8 produced by alternative splicing: FGF8a, FGF-8b, FGF-8e and FGF-8f. The human and mouse FGF8b are identical of aa sequences. FGF-8 plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. FGF-8 is required for normal brain, eye, ear and limb development during embryogenesis. It is also required for normal development of the gonadotropin- releasing hormone (GnRH) neuronal system. Recombinant **human Fibroblast Growth Factor-8 (rhFGF-8)** produced in *E. coli* is a single non-glycosylated polypeptide chain containing 194 amino acids. A fully biologically active molecule, rhFGF-8 has a molecular mass of 22.5kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Human
Source	*E. coli*
Biological Activity	ED_{50} < 5.0 ng/ml, measured by a cell proliferation assay using 3T3 cells in the presence of 1µg/ml of heparin, corresponding to a specific activity of > 2.0×10^5 units/mg.
Sequence	MQVTVQSSPN FTQHVREQSL VTDQLSRRLI RTYQLYSRTS GKHVQVLANK RINAMAEDGD PFAKLIVETD TFGSRVRVRG AETGLYICMN KKGKLIAKSN GKGKDCVFTE IVLENNYTAL QNAKYEGWYM AFTRKGRPRK GSKTRQHQRE VHFMKRLPRG HHTTEQSLRF EFLNYPPFTR SLRGSQRTWA PEPR

Properties

Measured Molecular Weight	22.5kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH_2O at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant **human Fibroblast Growth Factor-8 (rhFGF-8)** remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhFGF-8 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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