

Overview

Synonyms	Fibroblast Growth Factor-10, FGFA, Keratinocyte growth factor-2
Description	<p>Fibroblast Growth Factor-10 (FGF-10) is a mitogen mainly produced by mesenchymal stem cells in the lung. FGF-10 belongs to the heparin binding FGF family, and is also known as Keratinocyte Growth Factor-2 (KGF-2). It shares homology with KGF and receptor binding to FGFR2-IIIb. However, while KGF induces proliferation and differentiation of various epithelial cells, FGF-10 promotes budding and branching morphogenesis during the multi-organ development via mesenchymal-epithelial cell interactions. FGF-10 is critical for lung and limb development, and is regulated by Shh during early development.</p> <p>Recombinant Human FGF-10 produced in <i>E. coli</i> is a single, non-glycosylated polypeptide chain containing 169 amino acids. A fully biologically active molecule, rhFGF-10 has a molecular mass of 19.3 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	O15520
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 20 ng/mL, measured by a cell proliferation assay using 4 MBr-5 cells, corresponding to a specific activity of > 5.0 × 10 ⁴ units/mg.
Sequence	Leu ⁴⁰ -Ser ²⁰⁸ (accession number: O15520)

Properties

Measured Molecular Weight	19.3 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Human FGF-10 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human FGF-10 should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

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