

Overview

Synonyms	Fibroblast growth factor 21, FGF-21
Description	<p>Fibroblast growth factor-21 (FGF21) belongs to the large FGF family which has at least 23 members. Along with FGF-19/15 and FGF-23, FGF-21 is categorized as a member of the atypical FGF subfamily, as it must be complexed to the Klotho co-receptor in order to bind to the FGF receptors and activate the downstream signaling pathway. 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. Recombinant Mouse Fibroblast Growth Factor-21(FGF-21) produced in <i>E.coli</i> is a single non-glycosylated polypeptide chain containing 182 amino acids. A fully biologically active molecule, rmFGF-21 has a molecular mass of 19.9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	Q9JJN1
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 0.5 µg/ml, measured by a cell proliferation assay using NIH-3T3 cells in the presence of 1.25 µg/mL mouse Klotho and 10 µg/mL heparin, corresponding to a specific activity of > 2 × 10 ³ units/mg.
Sequence	Ala ²⁹ -Ser ²¹⁰ (Accession #:Q9JJN1)

Properties

Measured Molecular Weight	19.9 kDa, observed by reducing SDS-PAGE.
Purity	> 97% as analyzed by SDS-PAGE & HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Mouse Fibroblast Growth Factor-21(FGF-21) , remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse FGF-21 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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