

## Datasheet for ABIN2017820 **FGF21 Protein (AA 29-209)**



[Go to Product page](#)

### Overview

Quantity:	50 µg
Target:	FGF21
Protein Characteristics:	AA 29-209
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

### Product Details

Characteristics:	ED50 < 0.5 xg/mL, measured by a cell proliferation assay using NIH-3T3 cells in the presence of 1.25 xg/mL mouse Klotho and 10 xg/mL heparin, corresponding to a specific activity of > 2x 10 <sup>3</sup> units/mg. AA 29-209, expressed with an N-terminal Gly.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

### Target Details

Target:	FGF21
Alternative Name:	Fibroblast Growth Factor-21 (FGF-21) ( <a href="#">FGF21 Products</a> )
Background:	Fibroblast Growth Factor-21 (FGF-21) is a metabolic cytokine belonging to the heparin-binding FGF family. Along with FGF-19/15 and FGF-23, FGF-21 is categorized as a member of the

## Target Details

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. In vivo FGF-21 is expressed in liver, pancreas, adipose tissue, and skeletal muscle, and it plays a central role in the energy metabolism. The expression of FGF-21 is stimulated by free fatty acids and insulin resistant states and is correlated with whole-body insulin resistance. FGF-21 activates glucose uptake in adipocytes and increases insulin sensitivity, implicating it as a novel target with potential anti-diabetic properties. Recombinant human Fibroblast Growth Factor-21 (rhFGF-21) produced in E. coli is a single non-glycosylated polypeptide chain containing 182 amino acids. A fully biologically active molecule, rhFGF-21 has a molecular mass of 19.5 kDa analyzed by reducing SDS-PAGE.

Synonyms: Fibroblast Growth Factor-21, FGFL

Molecular Weight: 19.5 kDa, observed by reducing SDS-PAGE.

UniProt: [Q9NSA1](#)

Pathways: [RTK Signaling](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH<sub>2</sub>O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human Fibroblast Growth Factor-21 (rhFGF-21) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhFGF-21 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months