

Datasheet for ABIN2017814 **FGF18 Protein (AA 28-199)**

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Overview

Quantity:	50 µg
Target:	FGF18
Protein Characteristics:	AA 28-199
Origin:	Rat
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 3T3 cells, corresponding to a specific activity of > 2x 10 ³ units/mg.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	FGF18
Alternative Name:	Fibroblast Growth Factor-18 (FGF-18) (FGF18 Products)
Background:	Fibroblast Growth Factor 18 (FGF-18) is a pleiotropic cytokine belonging to the heparin-binding FGF family, which has 23 different members. Structurally, FGF-18 is closely related to FGF-8 and FGF-17. Like other FGFs, FGF-18 can bind to different FGF receptors in vivo. FGF-18 is expressed in various tissues and has multiple functions: during long bone growth, FGF-18 is

Target Details

expressed in perichondrium and developing joints, and regulates bone formation by inhibiting chondrocyte proliferation and differentiation, FGF-18 knock-out mice survive embryonic development, but exhibit skeletal abnormalities and die in the early neonatal period. FGF-18 also induces ectopic cartilage formation in the lung, and alters the morphology of the pulmonary mesenchyma. Recombinant rat Fibroblast Growth Factor 18 (rrFGF-18) produced in E. coli is a single non-glycosylated polypeptide chain containing of 172 amino acids. A fully biologically active molecule, rrFGF-18 has a molecular mass of 20.1 kDa analyzed by non-reducing SDS-PAGE.

Synonyms: Fibroblast growth factor 18, FGF-18, zFGF5, Fgf18, D130055P09Rik

Molecular Weight: 20.1 kDa, observed by non-reducing SDS-PAGE.

UniProt: [O88182](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH2O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant rat Fibroblast Growth Factor 18 (rrFGF-18) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rrFGF-18 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months