

## Datasheet for ABIN2017808 **FGF16 Protein (AA 2-207)**

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### Overview

Quantity:	50 µg
Target:	FGF16
Protein Characteristics:	AA 2-207
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant

### Product Details

Characteristics:	Measured in a cell proliferation assay using 3T3 mouse fibroblast cell, The ED50 for this effect is < 20 ng/mL.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

### Target Details

Target:	FGF16
Alternative Name:	Fibroblast Growth Factor-16 (FGF-16) ( <a href="#">FGF16 Products</a> )
Background:	Fibroblast Growth Factor-16 (FGF-16) is a heparin binding growth factor, a member of the FGF family. All FGF family members are heparin binding growth factors with a core 120 amino acid (aa) FGF domain that allows for a common tertiary structure. 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

## Target Details

invasion. The rat homolog is predominantly expressed in embryonic brown adipose tissue and has significant mitogenic activity, which suggests a role in proliferation of embryonic brown adipose tissue. FGF-16 is most similar to FGF-9 (73 % amino acid identity). The protein sequence of human FGF-16 displays 98.6 % identity with rat FGF-16. Chimpanzee FGF-16 (207 amino acids), chicken FGF-16 (207 amino acids), and zebrafish FGF-16 (203 amino acids) show 100 %, 89.9 %, and 79.2 % total amino acid identity with human FGF-16. Recombinant human FGF-16 produced in CHO cells is a polypeptide chain containing 206 amino acids. A fully biologically active molecule, rhFGF-16 has a molecular mass of 23 kDa analyzed by reducing SDS-PAGE.

Synonyms: FGF-16, Fibroblast Growth Factor-16, FGFG

Molecular Weight: 23 kDa, observed by reducing SDS-PAGE.

UniProt: [O43320](#)

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 ddH<sub>2</sub>O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant Human Fibroblast Growth Factor-16 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human Fibroblast Growth Factor-16 should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months