Datasheet for ABIN7505309

FGF18 Protein (AA 31-207) (His tag)

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Overview

Quantity:	100 µg
Target:	FGF18
Protein Characteristics:	AA 31-207
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGF18 protein is labelled with His tag.

Product Details

Sequence:	Val 31-Ala 207
Characteristics:	A DNA sequence encoding the Human FGF18 protein (O76093) (Val 31-Ala 207) was expressed with a C-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	FGF18
Alternative Name:	FGF18 (FGF18 Products)
Background:	Abbreviation: FGF18 Target Synonym: FGFl,zFGF5 Background: Fibroblast Growth Factor 18 (FGF-18) is a 20 kDa protein that plays an important role in skeletal development and bone homeostasis . Mature human FGF-18 shares 99 % amino

Target Details

	acid sequence identity with mouse and rat FGF-18 . It is expressed in embryonic somites and the neural fold , adult lung , cerebellar and hippocampal neurons , hair follicle root sheath cells , and osteogenic mesenchymal cells . FGF-18 binds to FGF R2c, FGF R3c as well as the Golgi protein GLG1 and induces the proliferation of astrocytes and microglia, vascular endothelial cells, dermal fibroblasts, papilla cells, and keratinocytes . FGF-18 is required for normal skeletal development . It recruits osteoclasts and osteoblasts to the growth plate, promotes osteoclast formation and function, inhibits osteoblast differentiation, promotes skeletal vascularization, and induces chondrocyte hypertrophy and cartilage matrix formation.
Molecular Weight:	Calculated MW: 19.36 kDa Observed MW: 23 kDa
UniProt:	O76093
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months