

Datasheet for ABIN7596372

FGF23 Protein (AA 25-251) (His tag)



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Overview

Quantity:	100 µg
Target:	FGF23
Protein Characteristics:	AA 25-251
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGF23 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	ADPYPNASPL LGSSWGGLIH LYTATARNYS HLQIHKNGHV DGAPHQTIYS ALMIRSEDAG FVVITGVMSR RYLCMDFRGN IFGSHYFDPE NCRFQHQTLE NGYDVYHSPQ YHFLVSLGRA KRAFLPGMNP PPYSQFLSRR NEIPLIHENT PIPRRHTRSA EDDSERDPLN VLKPRARMTP APASCSQELP SAEDNSPMAS DPLGVVRGGR VNTHAGGTGP EGCRPFAKFI HHHHHH
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1 µg of protein (determined by LAL method)

Target Details

Target:	FGF23
Alternative Name:	FGF-23 (FGF23 Products)
Background:	FGF-23, also known as fibroblast growth factor 23, is a member of the FGF family which is

Target Details

responsible for phosphate and vitamin D metabolism. The main function of this protein seems to be regulation of phosphate concentration in plasma. It is secreted by osteocytes in response to elevated calcitriol and acts on the kidneys, where it decreases the expression of NPT2, a sodium-phosphate cotransporter in the proximal tubule. Thus, FGF-23 interaction with renal proximal tubular epithelium decreases the reabsorption and increases excretion of phosphate. This protein may also suppress 1-alpha-hydroxylase, reducing its ability to activate vitamin D and subsequently impairing calcium absorption. Following secretion this protein is inactivated by cleavage into a N-terminal fragment and a C-terminal fragment. The N-terminal sequence analysis is showing that a C-terminal fragment is detected. Recombinant human FGF-23, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Molecular Weight: 26.4 kDa (236aa)ns

NCBI Accession: [NP_065689](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Negative Regulation of Hormone Secretion](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.