

Datasheet for ABIN7566152 FGF23 Protein (Fc Tag)



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Overview

Quantity:	3 x 10 µg
Target:	FGF23
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FGF23 protein is labelled with Fc Tag.

Product Details

Purpose:	FGF-23 (mouse):Fc (human) (rec.)
Cross-Reactivity:	Mouse
Characteristics:	Mouse FGF-23 (aa25-251) is fused at the C-terminus to the Fc portion of human IgG1.
Purity:	>90 % (SDS-PAGE)
Endotoxin Level:	<0.02EU/µg purified protein (LAL test, Lonza).
Biological Activity Comment:	Activates ERK and FRS2alpha phosphorylation in Klotho expressing cells.

Target Details

Target:	FGF23
Alternative Name:	FGF-23 (FGF23 Products)
Background:	Fibroblast Growth Factor 23, Tumor-derived Hypophosphatemia-inducing Factor

Target Details

FGF-23 (Fibroblast growth factor 23) is a regulator of phosphate homeostasis. It upregulates EGR1 expression in the presence of KLB. Acts directly on the parathyroid to decrease PTH secretion. Regulates the vitamin-D metabolism. Negatively regulates osteoblast differentiation and matrix mineralization. Defects in FGF-23 are the cause of autosomal dominant hypophosphataemic rickets (ADHR) and of hyperphosphatemic familial tumoral calcinosis (HFTC).

Molecular Weight: ~40kDa (SDS-PAGE), full-length FGF23 is cleaved between Arg179 and Ser 180.

UniProt: [Q9EPC2](#)

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

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: 0.1 mg/mL after reconstitution

Concentration: 0.1 mg/mL

Buffer: Contains PBS.

Handling Advice: After opening, prepare aliquots and store at -20 °C. Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution. For maximum product recovery after thawing, centrifuge the vial before opening the cap.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C

Long Term Storage: -20°C

Use & Stability: Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.