

Recombinant Full Length Human FGF23 Protein, C-His-tagged

Cat. No. FGF23-299H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FGF23 Protein, fused to His-tag at C-terminus, was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	1-251 aa
Description	FGF-23 (Fibroblast growth factor 23) is a regulator of phosphate homeostasis. It upregulates EGR1 expression in the presence of KLBy. 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).
Form	Lyophilized. Contains PBS.
Bio-activity	Activates ERK and FRS2 α phosphorylation in Klotho expressing cells.
Molecular Mass	~30kDa (SDS-PAGE, full-length). FGF23 is cleaved between Arg179 and Ser180 (two bands of ~14kDa and ~16kDa).
Endotoxin	<0.01EU/ μ g purified protein (LAL test; Lonza).

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Purity	≥90% (SDS-PAGE)
Storage	Short Term Storage: 4 centigrade Long Term Storage: -20 centigrade
Shipping	BLUE ICE
Handling Advice	After reconstitution, prepare aliquots and store at -20 centigrade. Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution. PBS containing at least 0.1% BSA should be used for further dilutions.
Use/Stability	Stable for at least 6 months after receipt when stored at -20 centigrade. Working aliquots are stable for up to 3 months when stored at -20 centigrade.
Reconstitution	Reconstitute with 100µl sterile water.
References	1. Maternally-derived antibody to fibroblast growth factor-23 reduced dietary phosphate requirements in growing chicks: E.A. Bobeck, et al.; BBRC 420, 666 (2012) 2. Antibody to fibroblast growth factor 23-peptide reduces excreta phosphorus of laying hens: Z. Ren, et al.; Poultry Science 96, 127 (2017).

GENE INFORMATION

Gene Name	FGF23 fibroblast growth factor 23 [Homo sapiens (human)]
Official Symbol	FGF23
Synonyms	FGF23; fibroblast growth factor 23; Fibroblast Growth Factor 23; Tumor-derived Hypophosphatemia-inducing Factor; ADHR; FGFN; HYPF; HFTC2; HPDR2; PHPTC

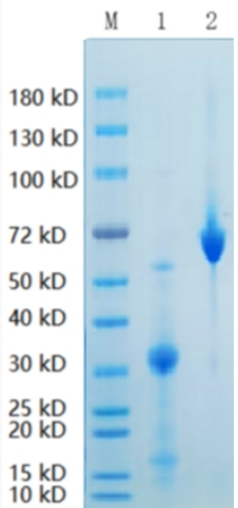
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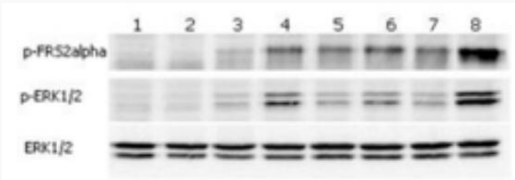
Gene ID	8074
mRNA Refseq	NM_020638.3
Protein Refseq	NP_065689.1
MIM	605380
UniProt ID	Q9GZV9

SDS-PAGE



ERK and FRS2α phosphorylation induced by FGF-23 in Klotho expressing cells.

SDS-PAGE



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ERK phosphorylation and FRS2 α phosphorylation in Klotho expressing cells induced by FGF23-His and FGF23-His (R179Q mutant).

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