Recombinant Human FGF23 Protein, His-tagged

Cat. No. FGF23-684H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF23 Protein is produced by Baculovirus expression system. This protein is fused with a His tag.
Species	Human
Source	Insect Cells
ProteinLength	25-251 aa
Description	FGF-23, also known as fibroblast growth factor 23, is a member of the FGF family which is 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.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 2 mM DTT, 1 mM EDTA, 10

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	% glycerol.
Molecular Mass	26.4 kDa
AA Sequence	ADPYPNASPL LGSSWGGLIH LYTATARNSY HLQIHKNGHV DGAPHQTIYS ALMIRSEDAG FVVITGVMSR RYLCMDFRGN IFGSHYFDPE NCRFQHQTLE NGYDVYHSPQ YHFLVSLGRA KRAFLPGMNP PPYSQFLSRR NEIPLIHFNT PIPRRHTRSA EDDSERDPLN VLKPRARMTP APASCSQELP SAEDNSPMAS DPLGVVRGGR VNTHAGGTGP EGCRPFAKFI HHHHHH
Endotoxin	< 1.0 EU per 1 ug of protein (determined by LAL method)
Purity	> 90 % by SDS - PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Absorbance at 280 nm)

GENE INFORMATION

Gene Name	FGF23 fibroblast growth factor 23 [Homo sapiens]
Official Symbol	FGF23
Synonyms	Fibroblast growth factor 23; FGF23; ADHR; FGFN; HFTC2; HPDR2; HYPF; PHPTC;
Gene ID	8074

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mRNA Refseq	NM_020638
Protein Refseq	NP_065689
UniProt ID	Q9GZV9

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