

Recombinant Human FGF23, His-tagged

Cat. No. FGF23-27677TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human FGF 23 C terminal peptide with an N terminal His tag; 81 amino acids with tag, Predicted MWt 8.67 kDa.
Species	Human
Source	E.coli
ProteinLength	72 amino acids
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. The product of this gene inhibits renal tubular phosphate transport. This gene was identified by its mutations associated with autosomal dominant hypophosphatemic rickets (ADHR), an inherited phosphate wasting disorder. Abnormally high level expression of this gene was found in oncogenic hypophosphatemic osteomalacia (OHO), a phenotypically similar disease caused by abnormal phosphate metabolism. Mutations in this gene have also been shown to cause familial tumoral calcinosis with hyperphosphatemia.
Conjugation	HIS
Molecular Weight	8.670kDa inclusive of tags
Tissue specificity	Expressed in osteogenic cells particularly during phases of active bone remodeling. In

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	adult trabecular bone, expressed in osteocytes and flattened bone-lining cells (inactive osteoblasts).
Form	Lyophilised: Add deionized water to prepare a working stock solution of 0.5 mg/ml and let the lyophilized pellet dissolve completely. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconsti
Purity	by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50mM Sodium chloride, 20mM Tris, pH 7.5
Storage	Store at -80°C
Sequences of amino acids	MKHHHHHHASAEDDSERDPLNVLKPRARMT PAPASCSQELPSAEDNSPMASDPLG VVRGGRVNT HAGGTGPEGCRPFAKFI
Sequence Similarities	Belongs to the heparin-binding growth factors family.

GENE INFORMATION

Gene Name	FGF23 fibroblast growth factor 23 [Homo sapiens]
Official Symbol	FGF23
Synonyms	FGF23; fibroblast growth factor 23;
Gene ID	8074
mRNA Refseq	NM_020638
Protein Refseq	NP_065689

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MIM	605380
Uniprot ID	Q9GZV9
Chromosome Location	12p13
Pathway	Downstream signaling of activated FGFR, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR1 ligand binding and activation, organism-specific biosystem; FGFR1c and Klotho ligand binding and activation, organism-specific biosystem;
Function	growth factor activity; protein tyrosine kinase activity; type 1 fibroblast growth factor receptor binding;

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