Recombinant Human FGF23, His-tagged

Cat. No. FGF23-28141TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human FGF 23 fused at the C-terminus to a His tag, 35kDa.
Species	Human
Source	HEK293
ProteinLength	251 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	35.000kDa inclusive of tags
Tissue specificity	Expressed in osteogenic cells particularly during phases of active bone remodeling. In adult trabecular bone, expressed in osteocytes and flattened bone-lining cells

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	(inactive osteoblasts).
Biological activity	Activates ERK and FRS2a phosphorylation in Klotho expressing cells.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
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
MIM	605380
Uniprot ID	Q9GZV9

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA