FGF23 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	FGF23, Blocking Peptide
Full Product Name	FGF23 Immunizing Peptide
Product Gene Name	FGF23 blocking peptide
Product Synonym Names	FGF23; fibroblast growth factor 23; ADHR; HPDR2; HYPF; PHPTC; tumor-derived hypophosphatemia inducing factor
Sequence	C-RHTRSAED DSERD
Species Reactivity	Human
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	FGF23 peptide (MBS426911) is used for blocking the activity of FGF23 antibody (MBS420602)
Molecular Weight	27,954 Da
OMIM	193100
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for FGF23 blocking peptide	MBS426911 is a blocking peptide targeting FGF23. Also known as FGF23 Immunizing Peptide. Reactive in Human.
Other Notes	Small volumes of FGF23 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGF23. It may not necessarily be applicable to this product.

NCBI GI #	10190674
NCBI GeneID	8074
NCBI Accession #	NP_065689.1
UniProt Secondary Accession #	Q4V758
UniProt Related Accession #	Q9GZV9
GenBank Nucleotide #	NM_020638.2
NCBI Official Full Name	fibroblast growth factor 23
NCBI Official Synonym Full Names	fibroblast growth factor 23
NCBI Official Symbol	FGF23
NCBI Official Synonym Symbols	ADHR; FGFN; HYPF; HPDR2; PHPTC
UniProt Protein Name	Fibroblast growth factor 23
UniProt Synonym Protein Names	Phosphatonin; Tumor-derived hypophosphatemia-inducing factor
Protein Family	Fibroblast growth factor

UniProt Gene Name	FGF23
UniProt Synonym Gene Names	HYPF; FGF-23
UniProt Entry Name	FGF23_HUMAN
NCBI Protein Information	fibroblast growth factor 23
NCBI Summary for FGF23	This gene encodes a member of the fibroblast growth factor family of proteins, which possess broad mitogenic and cell survival activities and are involved in a variety of biological processes. The product of this gene regulates phosphate homeostasis and transport in the kidney. The full-length, functional protein may be deactivated via cleavage into N-terminal and C-terminal chains. Mutation of this cleavage site causes autosomal dominant hypophosphatemic rickets (ADHR). Mutations in this gene are also associated with hyperphosphatemic familial tumoral calcinosis (HFTC). [provided by RefSeq, Feb 2013]
UniProt Comments for FGF23	FGF23: Regulator of phosphate homeostasis. Inhibits renal tubular phosphate transport by reducing SLC34A1 levels. Upregulates EGR1 expression in the presence of KL. Acts directly on the parathyroid to decrease PTH secretion. Regulator of vitamin-D metabolism. Negatively regulates osteoblast differentiation and matrix mineralization. Defects in FGF23 are the cause of autosomal dominant hypophosphataemic rickets (ADHR). ADHR is characterized by low serum phosphorus concentrations, rickets, osteomalacia, leg deformities, short stature, bone pain and dental abscesses. Defects in FGF23 are a cause of hyperphosphatemic familial tumoral calcinosis (HFTC). HFTC is a severe autosomal recessive metabolic disorder that manifests with hyperphosphatemia and massive calcium deposits in the skin and subcutaneous tissues. Belongs to the heparin-binding growth factors family. Protein type: Cytokine; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 12p13.3 Cellular Component: extracellular region; extracellular space; Golgi lumen Molecular Function: 1-phosphatidylinositol-3-kinase activity; growth factor activity; phosphatidylinositol-4,5-bisphosphate 3-kinase activity; protein-tyrosine kinase activity; Ras guanyl-nucleotide exchange factor activity; type 1 fibroblast growth factor receptor binding Biological Process: cell differentiation; cellular phosphate ion homeostasis; fibroblast growth factor receptor signaling pathway; MAPKKK cascade; negative regulation of bone mineralization; negative regulation of hormone secretion; negative regulation of osteoblast differentiation; peptidyl-tyrosine phosphorylation; phosphate ion homeostasis; phosphoinositide phosphorylation; phosphoinositide-mediated signaling; positive regulation of GTPase activity; positive regulation of transcription, DNA-dependent; regulation of phosphoinositide 3-kinase cascade; response to magnesium ion; vitamin D catabolic process Disease: Hypophosphatemic Rickets, Autosomal Dominant
Research Articles on FGF23	**1.** FGF23 itself, but not its renal tissue resistance as reflected by fractional phosphate excretion, is an important risk factor for clinical events in subjects with CKD stage 3-4.
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