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; FGF-23; phosphatonin; tumor-derived hypophosphatemia inducing factor; tumor-derived hypophosphatemia-inducing factor; Fgf23 (mouse)
Sequence	C-ENGYDVYL SQKHH
Species Reactivity	Mouse, Rat
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	Fgf23 peptide (MBS427488) is used for blocking the activity of Fgf23 antibody (MBS422726)
Molecular Weight	27,758 Da
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for Fgf23 blocking peptide	MBS427488 is a blocking peptide targeting Fgf23. Also known as Fgf23 Immunizing Peptide. Reactive in Mouse, Rat.
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 #	12083589
NCBI GeneID	64654
NCBI Accession #	NP_073148.1
UniProt Related Accession #	Q9EPC2
GenBank Nucleotide #	NM_022657.4
NCBI Official Full Name	fibroblast growth factor 23
NCBI Official Synonym Full Names	fibroblast growth factor 23
NCBI Official Symbol	Fgf23
UniProt Protein Name	Fibroblast growth factor 23
Protein Family	Fibroblast growth factor
UniProt Gene Name	Fgf23
UniProt Synonym Gene Names	FGF-23
UniProt Entry Name	FGF23_MOUSE
NCBI Protein Information	fibroblast growth factor 23

NCBI Summary for Fgf23	This gene encodes a member of the fibroblast growth factor family. The encoded protein regulates phosphate homeostasis and vitamin D metabolism. Mutation of the related gene in humans causes autosomal dominant hypophosphatemic rickets (ADHR). The secreted protein is further cleaved into N- and C-terminal chains, which results in loss of function. [provided by RefSeq, Mar 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, signal peptide; Secreted Cellular Component: extracellular region; extracellular space Molecular Function: fibroblast growth factor receptor binding; growth factor activity; protein binding; 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; phosphate ion homeostasis; positive regulation of transcription, DNA-dependent; regulation of bone mineralization; vitamin D catabolic process
Research Articles on Fgf23	**1.** findings revealed that FGF23 neutralization effectively improves bone quality and osseointegration of titanium implants in CKD mice, suggesting FGF23 as a key factor of CKD related bone diseases.
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