



Recombinant Human FGF-23

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-375S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	8074
Synonyms:	FGF23; ADHR; HYPF; HPDR2; PHPTC

The FGF family plays a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-23, FGF-21 and FGF-19 constitute an atypical FGF subfamily whose ligands act as circulating hormones and require the participation of a Klotho protein as a co-receptor for their signaling. FGF-23 is a bone-derived hormone that acts in the kidney to regulate phosphate homeostasis and vitamin D metabolism. The signaling receptor for FGF-23, a Klotho-FGFR1 (IIIc) complex, is an essential regulator of the renal sodium phosphate co-transporter and key vitamin D-metabolizing enzymes CYP27B1 and CYP24A1. Recombinant human FGF-23 is a 22.5 kDa globular protein containing 228 amino acid residues.

Sequence

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MYPNASPLLG SSWGGLIHLY TATARNSYHL QIHKNGHVDG
APHQTIYSAL MIRSEDAGFV VITGVMSRRY LCMDFRGNIF
GSHYFDPENC RFQHQTLENG YDVYHSPQYH FLVSLGRAKR
AFLPGMNPFP YSQFLSRRNE IPLIHFNTPI PRRHTRSAED
DSERDPLNVL KPRARMTFAP ASCSQELPSA EDNSPMASDP
LGVVRGGRVN THAGGTGPEG CRPFAKFI
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Database References

Protein RefSeq:	NP_065689.1
Uniprot ID:	Q9GZV9
mRNA RefSeq:	NM_020638

Product Specifications

Expressed in	E. coli
Purity	> 95% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	228
MW:	22.5 kDa

Biological Activity: Testing in Progress.



AVOID REPEATED FREEZE AND THAW CYCLES!