

FGF-23, human recombinant protein
Fibroblast Growth Factor-23
Catalog # PBV10781r**Specification**

FGF-23, human recombinant protein - Product info

Primary Accession [O9GZV9](#)
Calculated MW **22.5 kDa** KDa

FGF-23, human recombinant protein - Additional Info

Gene ID	8074
Gene Symbol	FGF23
Other Names	
Fibroblast Growth Factor-23	
Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes
Sequence	MYPNASPLLGSWSGGLIHLYTATARNSTYHL QIHKNGHVDGAPHQTIYSALMIRSEDAGFV VITGVMSRRYLCDMDFRGNIFGSHYFDPENC RFQHQTLENG YDVYHSPQYHFLVSLGRAKR AFLPGMNPPPYSQFLSRNEIPLIHFNTP PRRHTRSAEDDSERDPLNLVKPRARMTPAP ASCSQELPSAEDNSPMASDP LGVVRGGRVN THAGGTGPEGCRPFAKFI

Target/Specificity
FGF-23

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM sodium phosphate, pH 8.0 and 50 mM NaCl.

FGF-23, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FGF-23, human recombinant protein - Images

FGF-23, human recombinant protein - Background

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.

FGF-23, human recombinant protein - References

Yamashita T.,et al.Biochem. Biophys. Res. Commun. 277:494-498(2000).
White K.E.,et al.Nat. Genet. 26:345-348(2000).
Shimada T.,et al.Proc. Natl. Acad. Sci. U.S.A. 98:6500-6505(2001).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).