

32-20118: Recombinant Human FGF-23(Discontinued)

Reactivity : Mouse
Alternative Name : Fibroblast Growth Factor-23

Description

Source: **E.coli** The FGF family plays a central role during prenatal development, 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 25.5 kDa globular protein containing 228 amino acid residues.

Product Info

Amount : 5 µg / 20 µg
Purification : Purity: >= 95% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : MYPNASPLLG SSWGGLIHLY TATARN SYHL QIHKNGHVDG APHQTIYSAL MIRSEDAGFV VITGVMSRRY
LCMDFRGNIF GSHYFDPENC RFQHQTLENG YDVYHSPQYH FLVSLGRAKR AFLPGMNPPP YSQFLSRRNE
IPLIHFNTPI PRRHTRSAED DSERDPLNVL KPRARMTPAP ASCSQELPSA EDNSPMASDP LGVVRGGRVN
THAGGTGPEG CRPFAKFI

Application Note

Determined by its ability to stimulate the proliferation of murine NIH-3T3 cells. The expected ED_{50} for this effect is 2.0-5.0 µg/ml, in the presence of murine Klotho and heparin.