

## 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.