

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: $\geq 95\%$ by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : MYPNASPLLGSWGGLIHLYTATARN SYHLQIHKNGHVDGAPHQTIYSALMIRSEDAGFVITGVMSRRYL
LCMDFRGNIFGSHYFDPENC RFQHQTLENGYDVYHSPQYHFLVSLGRAKRAFLPGMNPPPYSQFLSRRNE
IPLIHFNTPIPRRHTRSAEDSERDPLNVLKPRARMTPAPASCSQELPSAEDNSPMASDP LGVVRGGRVN
THAGGTGPEGCRPFAKFI

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.