

32-20119: Recombinant Murine FGF-23(Discontinued)

Reactivity : Mouse, Rat
Alternative Name : Fibroblast Growth Factor-23

Description

Source: *E. coli* The FGF family plays a central role during prenatal development, postnatal growth, and the 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 Murine 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 : MYPDTSPLLG SNWGSLLTHLY TATARTSYHL QIHRDGHVDG TPHQTIYSAL MITSSEDAGSV VITGAMTRRF
LCMDLHGNIF GSLHFSPENC KFRQWLENG YDVYLSQKHH YLVSLGRAKR IFQPGTNPPP FSQFLARRNE
VPLLHFYTVR PRRHTRSAED PPERDPLNVL KPRPRATPVP VSCSRELPSA EEGGPAASDP LGVLRGRGD
ARGGAGGADR CRPFPRFV

Application Note

Determined by its ability to stimulate the proliferation of murine NIH-3T3 cells. The expected ED_{50} for this effect is 0.3-0.5 µg/ml, in the presence of murine Klotho and heparin.