

AR31140PU-S

Mouse FGF23 - Purified

Alternate names:

FGF-23, Fibroblast growth factor 23, HYPF, Phosphatonin, Tumor-derived hypophosphatemia-inducing factor

Quantity:

5 µg

Background:

The FGF family plays a central role during prenatal development and 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.

Uniprot ID:

[Q9EPC2](#)

NCBI:

[NP_073148.1](#)

GenelD:

[64654](#)

Species:

Mouse

Source:

E. coli

Format:

State: Lyophilized (0.2µ Sterile filtered) purified protein

Purity: >95% pure by SDS-PAGE and HPLC analyses

Description:

Recombinant murine FGF-23 is a 25.5 kDa globular protein containing 228 amino acid residues.

AA Sequence:

MYPDTSPLLGSNWGSLTHLYTATARTSYHLQIHRDGHVDGTPHQTIYSALMITSEDAGSV
VITGAMTRRF LCMDLHGNIFGSLHFSPENC KFRQWTLENG YDVYLSQKHH YLVSLGRAKR
IFQPGTNPPPFSQFLARRNEVPLLHFYTVRPRRHTRSAEDPPERDPLNVLKPRPRATPVP
VSCSRELPSAEEGGPAASDP LGVLRGRGDARGGAGGADR CRPFPRFV

Biological Activity: Determined by its ability to stimulate the proliferation of murine NIH-3T3 cells. The expected ED₅₀ for this effect is 0.3-0.5 µg/ml, in the presence of murine Klotho and heparin.

Molecular weight: 25.5 kDa

Storage:

Store lyophilized at 2-8°C for 6 months or at -20°C long term.

After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.