Active Recombinant Mouse Fgf23

Cat. No. Fgf23-27M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant murine FGF-23 is a 25.5 kDa globular protein containing 228 amino acid residues.
Species	Mouse
Source	E.coli
Description	This gene encodes a member of the fibroblast growth factor family. The encoded protein regulates phosphate homeostasis and vitamin D metabolism. Mutation of the related gene in humans causes autosomal dominant hypophosphatemic rickets (ADHR). The secreted protein is further cleaved into N- and C-terminal chains, which results in loss of function.
Bio-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 Mass	25.5 kDa
AA Sequence	MYPDTSPLLG SNWGSLTHLY TATARTSYHL QIHRDGHVDG TPHQTIYSAL MITSEDAGSV VITGAMTRRF LCMDLHGNIF GSLHFSPENC KFRQWTLENG YDVYLSQKHH YLVSLGRAKR IFQPGTNPPP FSQFLARRNE VPLLHFYTVR PRRHTRSAED PPERDPLNVL KPRPRATPVP VSCSRELPSA EEGGPAASDP LGVLRRGRGD ARGGAGGADR CRPFPRFV

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Purity	Greater than 95% by SDS-PAGE gel and HPLC analyses.

GENE INFORMATION

Gene Name	Fgf23 fibroblast growth factor 23 [Mus musculus (house mouse)]
Official Symbol	Fgf23
Synonyms	Fgf23; fibroblast growth factor 23; fibroblast growth factor 23; FGF-23
Gene ID	64654
mRNA Refseq	NM_022657
Protein Refseq	NP_073148
UniProt ID	Q9EPC2
Chromosome Location	6 F3; 6
Pathway	Activated point mutants of FGFR2; DAP12 interactions; Downstream signal transduction
Function	fibroblast growth factor receptor binding; growth factor activity; protein binding

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