

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	MYPDTSPLLGSNWGSLTHLYTATARTSYHLQIHRDGHVDGTPHQTIYSAL MITSEDAGSVVITGAMTRRF LCMDLHGNIFGSLHFSPENC KFRQWTLENG YDVYLSQKHH YLVSLGRAKR IFQPGTNPPP FSQFLARRNE VPLLHFYTVR PRRHTRSAED PPERDPLNVL KPRPRATPVP VSCSRELPSA EEGGPAASDP LGVLRRGRGD ARGGAGGADR CRPFPRFV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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