

FGF-23 active protein

Recombinant Mouse FGF-23

CATALOG # AAA79235	REACTIVITY Mouse
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PRODUCT SYNONYMS

FGF-23; Recombinant Mouse FGF-23; Fibroblast Growth Factor 23; FGF-23 active protein

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Purity/Purification	> 95% by SDS-PAGE & HPLC analyses
Form/Format	Lyophilized
Sequence	MYPDTSPLLG SNWGS LTHLY TATARTSYHL QIHRDGHVDG TPHQTIYSAL MITS EDAGSV VITGAMTRRF LCMDLHGNI F GSLHFSPENC KFRQWTLENG YDVYLSQKHH YLVSLGRAKR IFQPGTNPPP FSQFLARRNE VPLLHFYTVR PRRHTRSAED PPERDPLNVL KPRPRATPVP VSCSRELPSA EEGGPAASDP LGVLRRGRGD ARGGAGGADR CRPFPRFV
Sequence Length	228
Expressed in	E.coli
Biological Activity	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 ug/ml, in the presence of murine Klotho and heparin.
Endotoxin Level	< 0.1 ng/ug of protein (<1EU/ug)
Reconstitution	Centrifuge the vial before opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example: 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Preparation and Storage	The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

ADDITIONAL INFORMATION

Related Product Information for FGF-23 active protein	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. Recombinant murine FGF-23 is a 25.5 kDa globular protein containing 228 amino acid residues.
Product Categories/Family for FGF-23 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	12083589
NCBI GeneID	64654

NCBI Accession #	NP_073148.1
NCBI GenBank Nucleotide #	NM_022657.4
UniProt Accession #	Q9EPC2
Molecular Weight	25.5 kDa
NCBI Official Full Name	fibroblast growth factor 23
NCBI Official Synonym Full Names	fibroblast growth factor 23
NCBI Official Symbol	Fgf23
NCBI Protein Information	fibroblast growth factor 23; FGF-23
UniProt Protein Name	Fibroblast growth factor 23
UniProt Gene Name	Fgf23
UniProt Synonym Gene Names	FGF-23
UniProt Entry Name	FGF23_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/mouse-active-protein/fgf-23/79235>