

FGF-23 Protein, Rat (His)

Cat. No.:	HY-P72195
Synonyms:	Fgf23Fibroblast growth factor 23; FGF-23
Species:	Rat
Source:	E. coli
Accession:	Q8VI82 (Y25-V251)
Gene ID:	170583
Molecular Weight:	Approximately 29.5 kDa

PROPERTIES

AA Sequence	<pre> YSDTSPLLGS NWGSLTHLYT ATARNSYHLQ IHRDGHVDGT PHQTIYSALM ITSEDAGSVV IIGAMTRRFL CMDLRGNIFG SYHFSPENCR FRQWTLNGY DVYLSPKHHY LVSLGRSKRI FQPGTNPPPF SQFLARRNEV PLLHFYTARP RRHTRSAEDP PERDPLNVLK PRPRATPIPV SCSRELPsAE EGGPAASDPL GVLRRGRGDA RRGAGGTDRC RPFPRFV </pre>
Biological Activity	Determined by its ability to stimulate the proliferation of murine NIH-3T3 cells. The ED ₅₀ for this effect is 27-51.77 ng/mL in the presence of 1 µg/mL murine Klotho and 100µg/mL heparin.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	FGF-23 Protein serves as a pivotal regulator of phosphate homeostasis, exerting its effects by inhibiting renal tubular phosphate transport through the reduction of SLC34A1 levels. Additionally, it plays a role in regulating vitamin-D metabolism. Furthermore, FGF-23 Protein negatively modulates osteoblasts differentiation and matrix mineralization. It directly influences the parathyroid to decrease the secretion of parathyroid hormone. FGF-23 Protein also up-regulates
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EGR1 expression in the presence of KL. Moreover, it interacts with FGFR1, FGFR2, FGFR3, and FGFR4, and the affinity between fibroblast growth factors (FGFs) and their receptors is enhanced by KL and heparan sulfate glycosaminoglycans, acting as coreceptors.

Caution: Product has not been fully validated for medical applications. For research use only.

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