FGF-23 Protein, Rat (P. pastoris, His)

Cat. No.:	HY-P700493
Synonyms:	FGF-23; Phosphatonin; Tumor-derived hypophosphatemia-inducing factor
Species:	Rat
Source:	P. pastoris
Accession:	Q8VI82 (Y25-V251)
Gene ID:	170583
Molecular Weight:	27.5 kDa

PROPERTIES

AA Sequence	Y S D T S P L L G S N W G S L T H L Y T A T A R N S Y H L Q I H R D G H V D G T P H Q T I Y S A L M I T S E D A G S V V I I G A M T R R F L C M D L R G N I F G S Y H F S P E N C R F R Q W T L E N G Y D V Y L S P K H H Y L V S L G R S K R I F Q P G T N P P P F S Q F L A R R N E V P L L H F Y T A R P R R H T R S A E D P P E R D P L N V L K P R P R A T P I P V S C S R E L P S A E E G G P A A S D P L G V L R R G R G D A R R G A G G T D R C R P F P R F V
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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 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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