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## Product Data Sheet

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Product Name: FGF23 Human, Sf9  
 Cat. No.: GP20256  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Fibroblast growth factor 23; FGF-23; Phosphatonin; Tumor-derived hypophosphatemia-inducing factor; HYPF.		
Amino Acid Sequence	ADPYPNASPL LGSSWGGLIH LYTATARNYS HLQIHKNGHV DGAPHQTIYS ALMIRSEDAGFVVITGVMSR RYLCMDFRGN IFGSHYFDPE NCRFQHQTLE NGYDVYHSPQ YHFLVSLGRAKRAFLPGMNP PPYSQFLSRR NEIPLIHFNT PIPRRHTRSA EDDSERDPLN VLKPRARMTPAPASCSQELP SAEDNSPMAS DPLGVVRGGR VNTHAGGTGP EGCRPFAKFI HHHHHH.		
Formulation	FGF23 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4), 2mM DTT, 1mM EDTA and 10% glycerol.		

### Introduction

FGF-23 is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, tissue repair, morphogenesis, tumor growth and invasion. FGF-23 inhibits renal tubular phosphate transport. This gene was identified by its mutations associated with autosomal dominant hypophosphatemic rickets (ADHR), an inherited phosphate wasting disorder. A high level expression of FGF23 was found in oncogenic hypophosphatemic osteomalacia (OHO), a phenotypically similar disease caused by abnormal phosphate metabolism.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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

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FGF23 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 236 amino acids (25-251a.a.) and having a molecular mass of 26.4kDa (Molecular size on SDS-PAGE will appear at approximately 13.5-18kDa). FGF23 is expressed with an 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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