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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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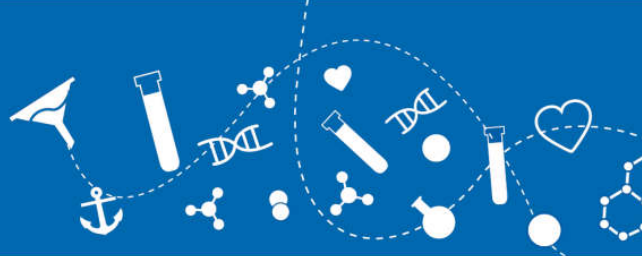
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Fibroblast Growth Factor-23, His Tag, human recombinant (rHuFGF-23-His)

Catalog No: 94961
Lot No: XXXXX
Source: *E. coli*
Synonyms: Tumor-derived hypophosphatemia-inducing factor, HYPF, ADHR, HPDR2, PHPTC, FGF23, FGF-23, Fibroblast Growth Factor-23

Background

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, morphogenesis, tissue repair, 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. Abnormally high level expression of FGF23 was found in oncogenic hypophosphatemic osteomalacia (OHO), a phenotypically similar disease caused by abnormal phosphate metabolism. Mutations FGF23 have also been shown to cause familial tumoral calcinosis with hyperphosphatemia.

Description

Fibroblast Growth Factor-23 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain expressed with a 6xHis Tag containing a total of 257 amino acids (251 amino acids FGF23 + 6 amino acids His Tag) and having a molecular mass of 28629.5 Dalton. FGF-23 is and purified by chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized powder.

Formulation

The protein (0.5 mg/ml) was lyophilized from 25 mM Tris pH 7.5 and 0.6 M NaCl solution.

Solubility

It is recommended to reconstitute the lyophilized FGF-23 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Fibroblast Growth Factor 23, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-23 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 90.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

MLGARLRLWV CALCSVCSMS VLRAYPNASP LLGSSWGGLI HLYTATARN S YHLQIHKNGH VDGAPHQTIY SALMIRSEDA
GFVVITGVMS RRYLCMDFRG NIFGSHYFDP ENCRFQHQTL ENGYDVYHSP QYHFLVSLGR AKRAFLPGMN PPPYSQFLSR
RNEIPLIHFN TPIPRRHTRS AEDDSERDPL NVLKPRARMT PAPANSCSDEL PSAEDNSPMA SDPLGVVRRG RVNTHAGGTG
PEGCRPFAKF IHHHHHH



Activity

Treatment with hrFGF23 has been shown to induce FGFR mediated Erk phosphorylation, reduce plasma PTH levels in rats and to reduce blood phosphate levels.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.