

Recombinant Human Fibroblast Growth Factor 23/FGF-23 Protein(C-6His)

Cat.NO.: TP06097

3th Edition

Synonyms:Fibroblast Growth Factor 23; FGF-23; Phosphatonin; Tumor-Derived Hypophosphatemia-Inducing Factor; FGF23; HYPF

Description:Fibroblast Growth Factor 23 (FGF-23) is a secreted protein that belongs to the heparin-binding growth factors family. FGF-23 is expressed in osteogenic cells, particularly during phases of active bone remodeling. FGF family members possess broad mitogenic and cell survival activities, involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. FGF-23 regulates homeostasis of phosphate and vitamin-D metabolism. FGF-23 inhibits renal tubular phosphate transport by reducing SLC34A1 levels, and negatively regulates osteoblast differentiation and matrix mineralization. FGF-23 also upregulates EGR1 expression in the presence of KL, acts directly on the parathyroid to decrease PTH secretion. Defects in FGF-23 are the cause of autosomal dominant hypophosphataemic rickets (ADHR).

Form:PBS

Molecular Weight:26.4 kDa

Sequences:Tyr25-Ile251

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.