

Fibroblast Growth Factor 23 (FGF-23)

Description	<p>FGF-23 is secreted by osteoblasts and osteocytes in bone and principally targets the kidney to regulate the reabsorption of phosphate, the production and catabolism of 1,25-dihydroxyvitamin D and the expression of α-Klotho, an anti-ageing hormone. Secreted FGF-23 plays a central role in complex endocrine networks involving local bone-derived factors that regulate mineralization of extracellular matrix and systemic hormones involved in mineral metabolism.</p> <p>FGF-23 also functions as a counter-regulatory hormone for 1,25-dihydroxyvitamin D in a bone–kidney endocrine loop. FGF-23 regulatory pathways may enable systemic phosphate and vitamin D homeostasis to be coordinated with bone mineralization.</p>
Indication	FGF-23 is a marker for the phosphate-wasting conditions oncogenic osteomalacia and hypophosphataemic rickets. It is also increased in patients with chronic kidney disease.
Additional Info	Patients must not be ferritin deficient. Sample sent to external referral laboratory for analysis.
Concurrent Tests	Ferritin, calcium, phosphate, albumin, 25-hydroxy vitamin D, magnesium and PTH
Dietary Requirements	Patients must be fasted before sample is collected
Interpretation	See information provided from external referral laboratory.
Collection Conditions	Sample should be received within the laboratory within 60 minutes of collection.
Frequency of testing	As required