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Contributions: RA developed and directed the project, performed research and data analysis, and wrote the manuscript. MYP and CLH performed research, data and statistical analyses. SJ and AG performed research. GC purified and crystallized the C-tail FGF23 and analyzed its crystal structure. MM designed, refined, analyzed, and interpreted the crystal structure of the C-tail FGF23. DS developed and directed the project, performed data analysis, supervised the study, and wrote the manuscript.