



Endocrine FGFs and Klothos

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Cytology

Gene expression

Cell Biology

Gene Expression

Monografía

Fibroblast growth factors (FGFs) have been recognized primarily as autocrine/paracrine factors that regulate embryonic development and organogenesis. However, recent studies have revealed that some FGFs function as endocrine factors and regulate various metabolic processes in adulthood. Such FGFs, collectively called endocrine FGFs, are comprised of three members (FGF15/19, FGF21, and FGF23: FGF15 is the mouse ortholog of human FGF19). These endocrine FGFs share a common structural feature that enables the endocrine mode of action at the expense of the affinity to FGF receptors. To restore the affinity to FGF receptors in their target organs, the endocrine FGFs have designated the Klotho family of transmembrane proteins as obligate co-receptors. By expressing Klothos in a tissue-specific manner, this unique co-receptor system also enables the endocrine FGFs to specify their target organs among many tissues that express FGF receptors

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Chronic KidneyDisease -- FGF23 as a Novel Therapeutic Target -- Physiology of FGF15/19 -- FGF19 and Cancer
-- Understanding the Structure#Function Relationship Between FGF19 and its Mitogenic and Metabolic Activities
-- FGF21 as a Therapeutic Reagent

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