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Roles and regulation of BMP7 in kidney development and diseases

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Abstract

The gene encoding bone morphogenic protein-7 (*Bmp7*) is expressed in the developing kidney in embryos and also in the mature organ in adults. During kidney development, expression of *Bmp7* is essential to determine the final number of nephrons in and proper size of the organ. The secreted BMP7 acts on the nephron progenitor cells to exert its dual functions: to maintain and expand the progenitor population and to provide them with competence to

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Figure 1 TGF- β 1/BMP7/Smad signalling in kidney **disease** ... The present review focuses on interpreting the functional **role and regulatory** mechanisms of As a morphogenetic protein, **BMP-7** is essential for **renal development** because ...

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To examine **the role** of Trps1 during early **renal development**, we generated Trps1 Expression Is **Regulated** by **Bmp7** via the p38 Mitogen-Activated Protein Kinase Pathway. We have **Bmp7** signaling in **renal development and disease**.

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