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CITED2 and the modulation of the hypoxic response in cancer

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Abstract

CITED2 (CBP/p300-interacting transactivator with Glu/Asp-rich C-terminal domain, 2) is a ubiquitously expressed protein exhibiting a high affinity for the CH1 domain of the transcriptional co-activators CBP/p300, for which it competes with hypoxia-inducible factors (HIFs). CITED2 is particularly efficient in the inhibition of HIF-1 α -dependent transcription in different contexts, ranging from organ development and metabolic homeostasis to tissue regeneration and immunity, being also potentially involved in various other

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The hypoxic response is mediated by the **α -subunit** of the transcription factor **HIF-1 (HIF-1 α)** 3, which interacts through its intrinsically disordered **C-terminal transactivation** domain with the TAZ1 (also known as CH1) domain of the general transcriptional coactivators CBP and p300 to control the transcription of critical adaptive genes...

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HIF-1 at the crossroads of hypoxia, inflammation, and cancer

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