HIFα pathway
Produced in collaboration with Claudie Hooper, King’s College London

Oxygen independent regulation of HIFα stability

Oxygen dependent regulation of HIFα stability

Transcriptional Target Genes

Angiogenesis:
- Excess vascularization
- Endothelial cell growth

Cell death:
- Induction of apoptosis
- Modulation of cytotoxicity

Growth inhibition:
- Decreased cell proliferation
- Arrest of cell cycle

Cell cycle:
- S-phase
- G2/M

Cell migration:
- Increased migration
- Chemotaxis

Endothelial function:
- Vascular permeability
- Smooth muscle cell contractility

Metabolism:
- Glycolysis
- TCA Cycle

Erythropoiesis:
- Hematopoiesis
- Red blood cell production

Transcription inhibited under normoxic conditions.

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