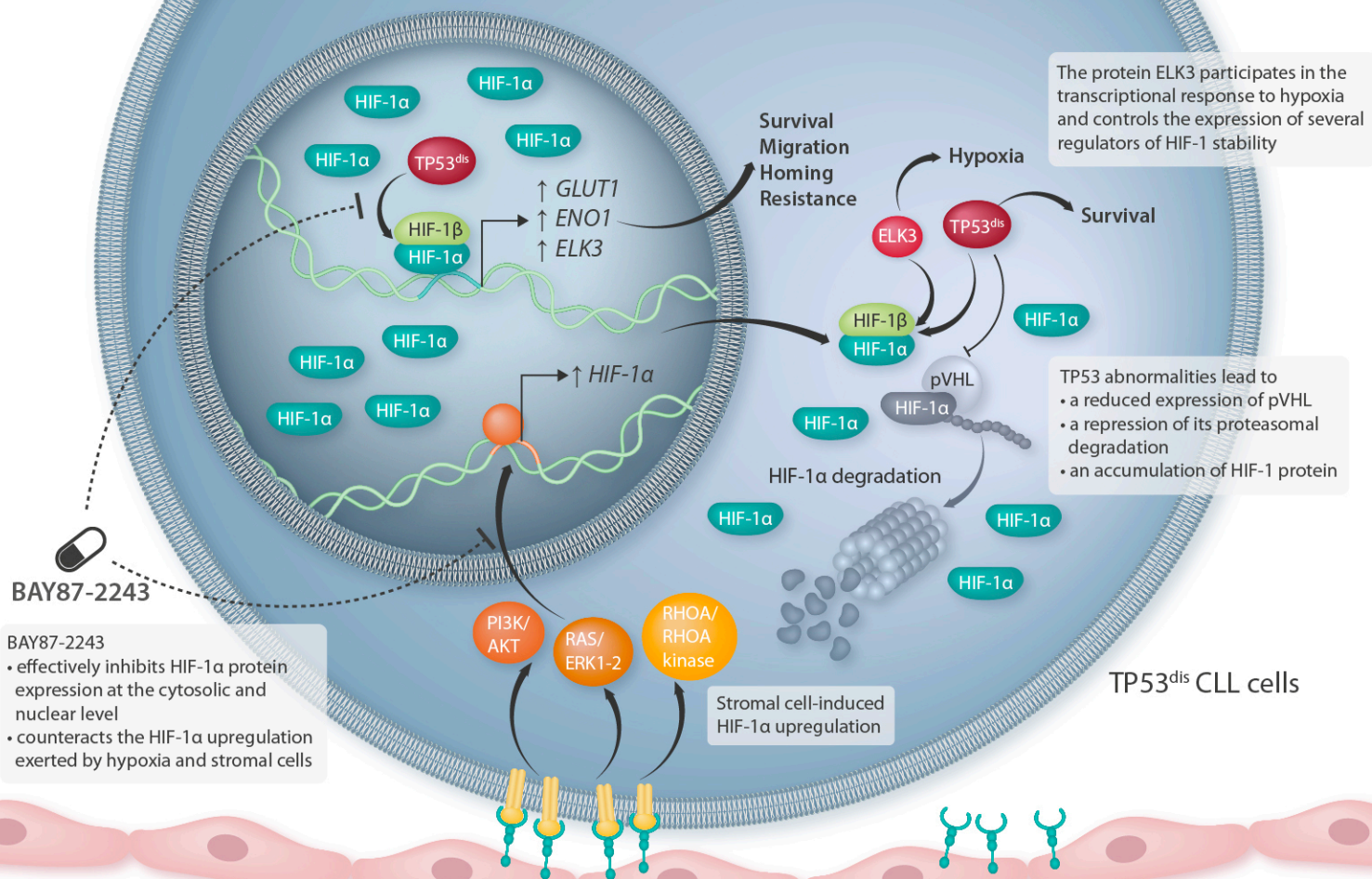


The regulatory role of the hypoxia-inducible factor 1 (HIF-1) in TP53-disrupted (TP53^{dis}) chronic lymphocytic leukemia cells



The protein ELK3 participates in the transcriptional response to hypoxia and controls the expression of several regulators of HIF-1 stability

TP53 abnormalities lead to

- a reduced expression of pVHL
- a repression of its proteasomal degradation
- an accumulation of HIF-1 protein

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- effectively inhibits HIF-1α protein expression at the cytosolic and nuclear level
- counteracts the HIF-1α upregulation exerted by hypoxia and stromal cells

Stromal cell-induced HIF-1α upregulation

TP53^{dis} CLL cells

Stromal cells