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# CBP/beta-catenin Antagonist PRI-724

National Cancer Institute

## Source

National Cancer Institute. *CBP/beta-catenin Antagonist PRI-724*. NCI Thesaurus. Code C95894.

A potent, specific inhibitor of the canonical Wnt signaling pathway in cancer stem cells with potential antineoplastic activity. Wnt signaling pathway inhibitor PRI-724 specifically inhibits the recruiting of beta-catenin with its coactivator CBP (the binding protein of the cAMP response element-binding protein CREB); together with other transcription factors beta-catenin/CBP binds to WRE (Wnt-responsive element) and activates transcription of a wide range of target genes of Wnt/beta-catenin signaling. Blocking the interaction of CBP and beta-catenin by this agent prevents gene expression of many proteins necessary for growth, thereby potentially suppressing cancer cell growth. The Wnt/beta-catenin signaling pathway regulates cell morphology, motility, and proliferation; aberrant regulation of this pathway leads to neoplastic proliferation.