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Tegavivint

National Cancer Institute

Source

National Cancer Institute. *Tegavivint*. NCI Thesaurus. Code C155885.

A small molecule inhibitor of the Wnt/beta-catenin pathway with potential antineoplastic activity. Upon intravenous administration, tegavivint binds to transducin beta-like protein 1 (TBL1) and disrupts the binding of beta-catenin to TBL1. This promotes beta-catenin degradation, attenuates nuclear and cytoplasmic levels of beta-catenin, and reduces transcriptional activity of transcription factor 4 (TCF4) and expression of its target genes, cyclin D1, c-Myc and survivin. The Wnt/beta-catenin signaling pathway regulates cell morphology, motility, and proliferation; aberrant regulation of this pathway leads to neoplastic proliferation. Beta-catenin is frequently mutated in various tumors.