Description

Indirubin is a bisindole isomer of indigo found in *Indigo naturalis*. Indirubin exhibits anti-inflammatory, anti-angiogenic, and anticancer chemotherapeutic activities. In vivo, indirubin decreases levels of IgE and production of inflammatory cytokines, decreasing overall inflammation as well as skin lesion thickness and hyperkeratosis. In vitro, indirubin downregulates expression of CDC25B and inhibits EGFR and CDKs. In leukemia cells, this compound inhibits expression of IAP1, IAP2, Bcl-2, Bcl-xL, TRAF1, cyclin D1, c-Myc, COX-2, and MMP-9. In endothelial cells, indirubin inhibits cell migration, tube formation, and survival; additionally, it suppresses VEGFR2-mediated JAK/STAT signaling. Indirubin also inhibits growth of prostate tumors in animal models.

References


Caution: This product is intended for laboratory and research use only. It is not for human or drug use.