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# PIM Kinase Inhibitor LGH447

National Cancer Institute

## Source

National Cancer Institute. *PIM Kinase Inhibitor LGH447*. NCI Thesaurus. Code C106259.

An orally available pan-PIM protein kinase inhibitor with potential antineoplastic activity. PIM kinase inhibitor LGH447 binds to and inhibits the activities of PIM-1, -2 and -3 serine/threonine kinases, which may result in the interruption of the G1/S phase cell cycle transition, the expression of the pro-apoptotic Bcl2 protein and tumor cell apoptosis in cells that overexpress PIMs. PIM kinases, downstream effectors of many cytokine and growth factor signaling pathways, play key roles in cell cycle progression and apoptosis inhibition and may be overexpressed in various malignancies.