

Product Datasheet

PIM447

Catalog No. **BP-01854** · CAS **1210608-43-7** · Form **free base** · Physical state **solid** · Color **white to off-white** · Version **1.0** · Revision **2026-09-07**

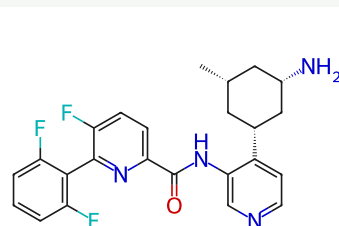
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Target Pim; Apoptosis	Research area Cancer
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Molecular formula **C₂₄H₂₃F₃N₄O**

Molecular weight **440.4608**

STRUCTURE



DESCRIPTION

PIM447 (LGH447) is a potent, orally available, and selective pan-PIM kinase inhibitor, with K_i values of 6, 18, and 9 μ M for PIM1, PIM2, and PIM3, respectively. PIM447 displays dual antimyeloma and bone-protective effects. PIM447 induces apoptosis.

BIOLOGICAL ACTIVITY

In Vitro

PIM447 (0.05-10 μ M; 24-72 hours) shows antiproliferative effect on the multiple myeloma (MM) cells.

PIM447 (10 μ M; 6-24 hours) induces apoptosis.

PIM447 (0.1-10 μ M; 48 hours) increases the percentage of cells in the G0-G1 phase and decreases the proliferative phases (S and G2-M) of the cell cycle, in the two cell lines (MM1S and OPM-2 cells) at all doses.

In Vivo

PIM447 (100 mg/kg; p.o.; 5 times for a week) reduces tumor burden.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Burger MT, et al. Identification of N-(4-((1R,3S,5S)-3-Amino-5-methylcyclohexyl)pyridin-3-yl)-6-(2,6-difluorophenyl)-5-fluoropicolinamide (PIM447), a Potent and Selective Proviral Insertion Site of Moloney Murine Leukemia (PIM) 1, 2, and 3 Kinase Inhibito

[2]. Paño T et al. The novel pan-PIM kinase inhibitor, PIM447, displays dual anti-myeloma and bone protective effects, and potently synergizes with current standards of care. Clin Cancer Res. 2016 Jul 20.

[3]. Peters TL et al. Control of translational activation by PIM kinase in activated B-cell diffuse large B-cell lymphoma confers sensitivity to inhibition by PIM447. *Oncotarget*. 2016 Aug 20

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Lot CoA and SDS are separate documents.