

Product Datasheet

BAY-1082439

Catalog No. **BP-02130** · CAS **1375469-38-7** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-03**

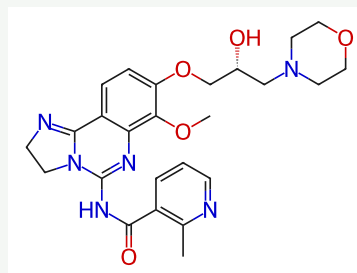
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Target PI3K; Apoptosis	Research area Cancer
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Molecular formula **C₂₅H₃₀N₆O₅**

Molecular weight **494.5429**

STRUCTURE



DESCRIPTION

BAY1082439 is an orally bioavailable, selective PI3K α / β / δ inhibitor. BAY1082439 also inhibits mutated forms of PIK3CA. BAY1082439 is highly effective in inhibiting Pten-null prostate cancer growth .

BIOLOGICAL ACTIVITY

In Vitro

BAY1082439 is a highly selective PI3K α / α -balanced inhibitor. BAY1082439 has an IC₅₀ ratio of 1:3 in biochemical assays of PI3K α (4.9 nM) vs. PI3K α (15.0 nM), and >1000-fold selectivity against mTOR kinase.

BAY1082439 (0.1-1 μ M; 72 hours) is more effective than PI3K α - and/or PI3K β -selective inhibitors in blocking PTEN-null prostate cancer cells.

In Vivo

BAY1082439 (75 mg/kg; p.o.; daily for 4 weeks) is effective in preventing Pten-null prostate cancer progression.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1].Ningshu Liu, et al. Abstract 2799: BAY 1082439, a highly selective and balanced PI3K α / β inhibitor demonstrated potent activity in tumors with activated PI3K α and loss-of-function of PTEN. Abstract nr 2799. doi:1538-7445.AM2012-2799.

[2].Yongkang Zou, et al. Co-Targeting the Cell Intrinsic and Microenvironment Pathways of Prostate Cancer by PI3K α / β / δ inhibitor BAY1082439. Mol Cancer Ther. 2018 Oct;17(10):2091-2099.

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