

Product Datasheet

GSK2636771

Catalog No. **BP-02304** · CAS **1372540-25-4** · Form **free base** · Physical state **solid** · Color **White to yellow** · Version **1.0** · Revision **2026-09-10**

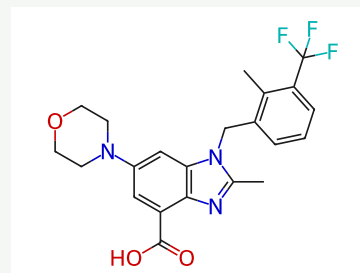
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Target PI3K	Research area Cancer
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Molecular formula **C₂₂H₂₂F₃N₃O₃**

Molecular weight **433.4236**

STRUCTURE



DESCRIPTION

GSK2636771 is a potent, selective and orally bioavailable inhibitor of PI3K β with a K_i of 0.89 nM and an IC_{50} of 5.2 nM, showing 900-fold selectivity over p110 α and p110 γ , and 10-fold selectivity over p110 δ isoforms.

BIOLOGICAL ACTIVITY

In Vitro

GSK2636771 treatment causes cell viability significantly more decreased in the control cells (p110 β -reliant PTEN-deficient PC3 prostate and BT549 and HCC70 breast cancer cell lines) than in PTEN-mutant and PTEN wild-type EEC cells. Inhibition of p110 β by GSK2636771 or AZD6482 leads to a marked decrease of AKT phosphorylation only in the control prostate and breast cancer cell lines, whereas only marginal effects on AKT activation are observed in EEC cells.

In Vivo

GSK2636771 is a p110 β inhibitor, and the p110 β primes cells for response to growth factor stimulation. While p110 β inhibition suppresses cell and tumor growth, dual targeting of p110 α/β enhances apoptosis and provides sustained tumor response in mice model.

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Weigelt B, et al. PI3K pathway dependencies in endometrioid endometrial cancer cell lines. Clin Cancer Res. 2013, 19(13), 3533-3544.
- [2]. Hosford SR, et al. Combined inhibition of both p110 α and p110 β isoforms of phosphatidylinositol 3-kinase is required for sustained therapeutic effect in PTEN-deficient, ER+ breast cancer. Clin Cancer Res. 2016 Nov 30

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