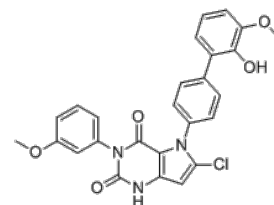


Product Name : GSK621
Cat. No. : PC-35414
CAS No. : 1346607-05-3
Molecular Formula : C₂₆H₂₀ClN₃O₅
Molecular Weight : 489.912
Target : AMPK
Solubility : 20 mM in DMSO (9.7 mg/mL) ultrasonic



Biological Activity

GSK621 (GSK-621) is a potent, specific **AMPK agonist (activator)**, induces cytotoxicity in AML (IC₅₀=13-30 uM) but not in normal hematopoietic cells.

GSK621 is more potent than A-769662 at inducing AMPK activation, as measured by the level of ACC phosphorylation, markedly increases phosphorylation at AMPK α T172 in AML cell lines (MOLM-14, HL-60, and OCI-AML3) and primary AML samples.

Cytotoxicity in AML cells from GSK621 involves the eIF2 α /ATF4 signaling pathway that specifically results from mTORC1 activation.

References

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Jiang H, et al. *PLoS One.* 2016 Aug 17;11(8):e0161017.
Chen L, et al. *Biochem Biophys Res Commun.* 2016 Nov 25;480(4):515-521.
Liu W, et al. *Oncotarget.* 2017 Feb 7;8(6):10543-10552.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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