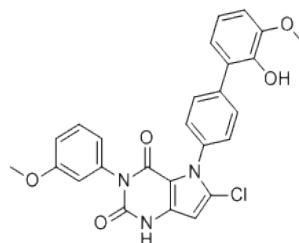


## Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

**Product Name** : GSK621  
**Cat.No.** : URK-V624  
**CAS No.** : 1346607-05-3  
**Molecular Formula** :  $C_{26}H_{20}ClN_3O_5$   
**Molecular Weight** : 489.912  
**Target** : AMPK  
**Solubility** :



### Biological Activity

GSK621 (GSK-621) is a potent, specific AMPK agonist (activator), induces cytotoxicity in AML (IC<sub>50</sub>=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 AMPKα T172 in AML cell lines (MOLM-14, HL-60, and OCI-AML3) and primary AML samples.

Cytotoxicity in AML cells from GSK621 involves the eIF2α/ATF4 signaling pathway that specifically results from mTORC1 activation.

### References

1. Sujobert P, et al. Cell Rep. 2015 Jun 9;11(9):1446-57.
2. Jiang H, et al. PLoS One. 2016 Aug 17;11(8):e0161017.
3. Chen L, et al. Biochem Biophys Res Commun. 2016 Nov 25;480(4):515-521.
4. Liu W, et al. Oncotarget. 2017 Feb 7;8(6):10543-10552.

*Note: All products of Ureiko are only used for scientific research or drug certificate declaration, we do not provide products and services for any personal use!*

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

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