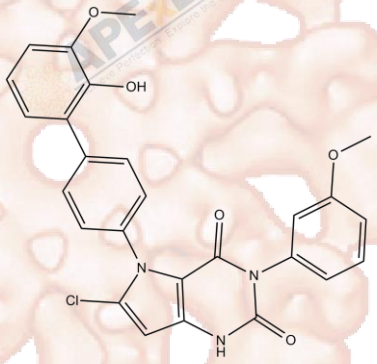
Product Data Sheet

GSK621

Cat. No.: B6020
CAS No.: 1346607-05-3
Formula: C26H20ClN3O5
M.Wt: 489.91
Synonyms:
Target: PI3K/Akt/mTOR Signaling
Pathway: AMPK
Storage: Store at 2-8°C



Solvent & Solubility

In Vitro

insoluble in H2O; insoluble in EtOH; ⩾28.5 mg/mL in DMSO

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	2.0412 mL	10.2060 mL	20.4119 mL
5 mM	0.4082 mL	2.0412 mL	4.0824 mL
10 mM	0.2041 mL	1.0206 mL	2.0412 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	AMPK agonist
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	MV4-11, OCI-AML3, OCI-AML2, HL-60, Kasumi, HEL, UT7, NB4, TF-1, KG1A, Nomo p28, SKM-1, U937, YHP1, MOLM-14, Mo7e, K562, MOLM-13, EOL-1 and SET-2 cell lines
Preparation method:	This compound is soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for

		several months.
	Reacting conditions:	30 μM; 4 days
	Applications:	In a set of 20 cell lines, GSK621 inhibited the proliferation of all 20 lines, with the IC50 values ranged from 13 to 30 μM, and promoted apoptosis in 17 cell lines.
In Vivo	**Animal experiment**	
	Animal models:	Mice bearing MOLM-14 cell xenografts
	Dosage form:	10 or 30 mg/kg; i.p.; b.i.d.
	Applications:	In mice bearing MOLM-14 cell xenografts, GSK621 (30 mg/kg; i.p.; b.i.d.) reduced leukemia growth, and substantially extended survival.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Leeanna El-Houjeiri, Elite Possik, et al. "The transcription factors TFEB and TFE3 link the FLCN-AMPK signaling axis to innate immune response and pathogen resistance."bioRxiv. 2018 November 6.

See more customer validations on www.apexbt.com.

References

[1]. Sujobert P, Poulain L, Paubelle E, et al. Co-activation of AMPK and mTORC1 induces cytotoxicity in acute myeloid leukemia. Cell reports, 2015, 11(9): 1446-1457.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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