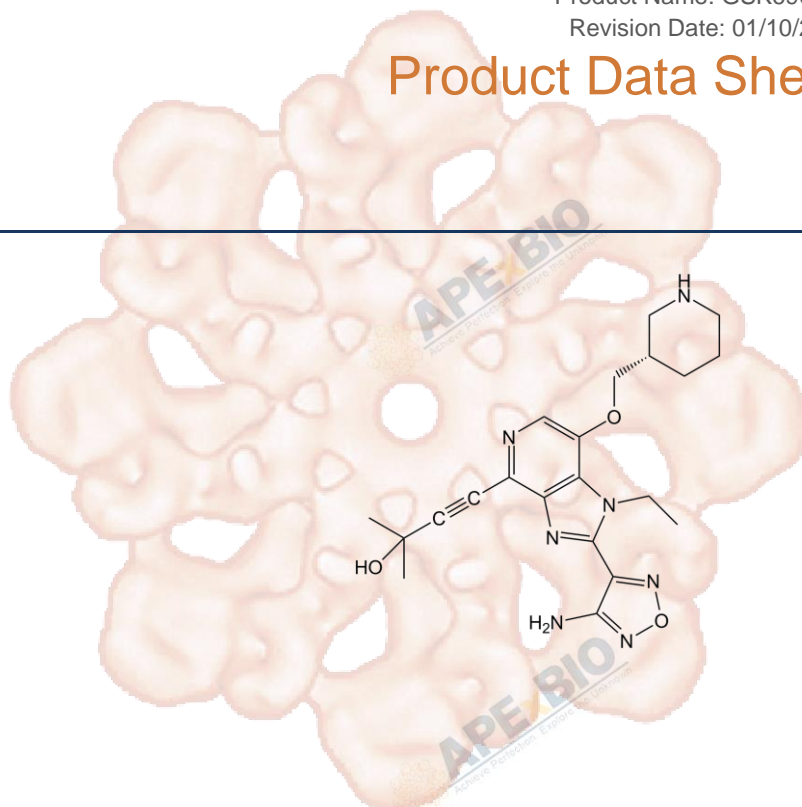


# Product Data Sheet

## GSK690693

<b>Cat. No.:</b>	A5072
<b>CAS No.:</b>	937174-76-0
<b>Formula:</b>	C <sub>21</sub> H <sub>27</sub> N <sub>7</sub> O <sub>3</sub>
<b>M.Wt:</b>	425.48
<b>Synonyms:</b>	
<b>Target:</b>	PI3K/Akt/mTOR Signaling
<b>Pathway:</b>	Akt
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

≥21.25 mg/mL in DMSO; insoluble in H<sub>2</sub>O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.3503 mL	11.7514 mL	23.5029 mL
	5 mM		0.4701 mL	2.3503 mL	4.7006 mL
	10 mM		0.2350 mL	1.1751 mL	2.3503 mL

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

## Biological Activity

Shortsummary

Pan-AKT inhibitor, ATP-competitive and potent

IC<sub>50</sub> & Target

2 nM (Akt1), 13 nM (Akt2), 9 nM (Akt3)

In Vitro

### Cell Viability Assay

Cell Line:	T47D, ZR-75-1, BT474, HCC1954, MDA-MB-453 and LNCaP cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. 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; 72 hrs

	Applications:	GSK690693 potently inhibited the proliferation of T47D, ZR-75-1, BT474, HCC1954, MDA-MB-453 and LNCaP cells with the IC50 values of 72 nM, 79 nM, 86 nM, 119 nM, 975 nM, and 147 nM, respectively.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Female CD1 Swiss Nude mice injected with LNCaP, SKOV-3 or PANC1 cells, and C.B-17 SCID mice with HCC1954, MDA-MB-453 or BT474 cells
	Dosage form:	10, 20 or 30 mg/kg; i.p.; q.d., for 21 days
	Applications:	GSK690693 potently inhibited the growth of human SKOV-3 ovarian, LNCaP prostate, and BT474 and HCC-1954 breast carcinoma xenografts, with maximal inhibition ranging from 58% to 75% at the dose of 30 mg/kg/day.
	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

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

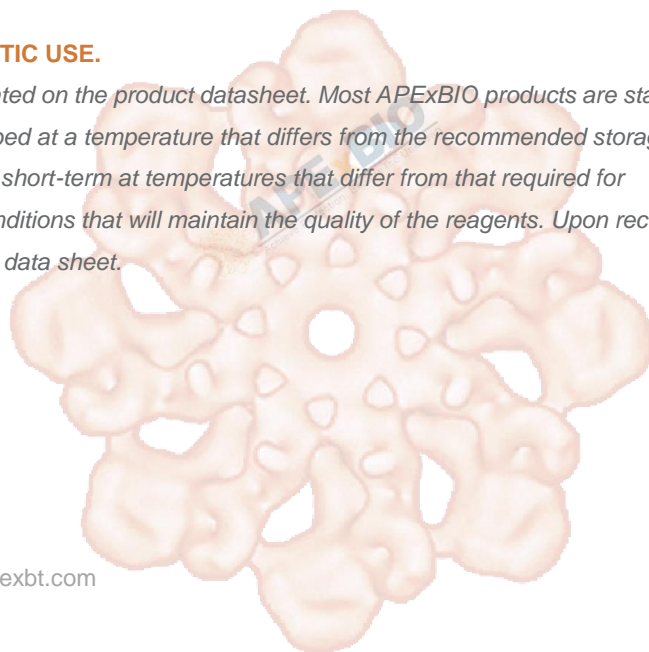
[1]. Rhodes N, Heerding DA, Duckett DR et al. Characterization of an Akt kinase inhibitor with potent pharmacodynamic and antitumor activity. Cancer Res 2008; 68: 2366-2374.

## 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 APEX BIO 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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## APExBIO Technology

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