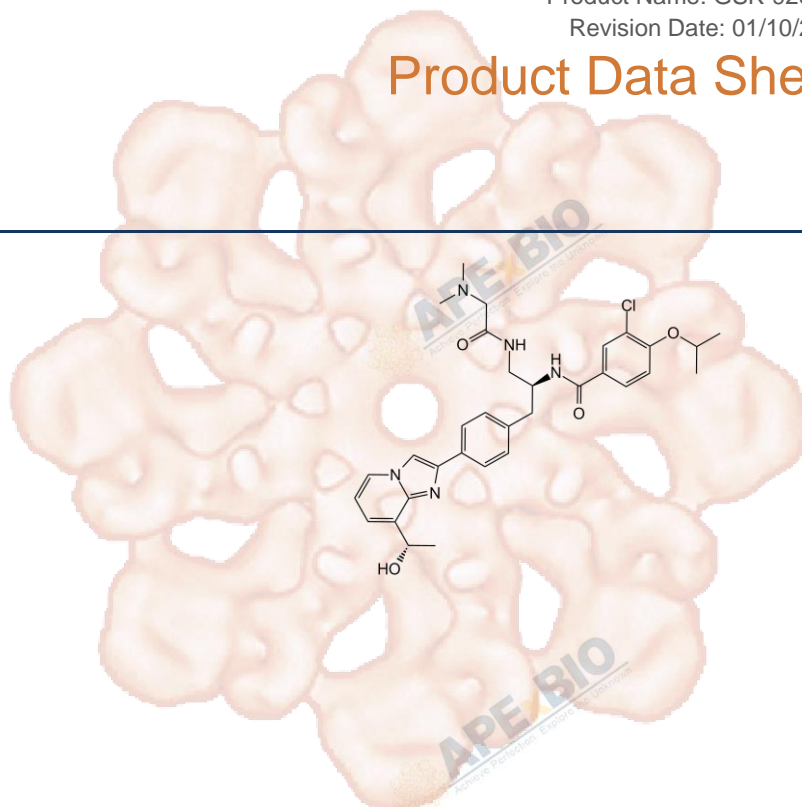


# Product Data Sheet

## GSK-923295

<b>Cat. No.:</b>	A3450
<b>CAS No.:</b>	1088965-37-0
<b>Formula:</b>	C32H38ClN5O4
<b>M.Wt:</b>	592.14
<b>Synonyms:</b>	GSK 923295;GSK923295
<b>Target:</b>	Cell Cycle/Checkpoint
<b>Pathway:</b>	Kinesin
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

≥29.6 mg/mL in DMSO; insoluble in H<sub>2</sub>O; ≥14.87 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		1.6888 mL	8.4439 mL	16.8879 mL
	5 mM		0.3378 mL	1.6888 mL	3.3776 mL
	10 mM		0.1689 mL	0.8444 mL	1.6888 mL

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

## Biological Activity

Shortsummary

CENP-E inhibitor,small-molecule

IC<sub>50</sub> & Target

3.2 nM (K<sub>i</sub>) (CENP-E)

In Vitro

### Cell Viability Assay

Cell Line: Tumor cell lines

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: ~ 10 μM; 72 hrs

	Applications:	In 237 tumor cell lines, GSK92329 potentially inhibited tumor cell growth, with an average GI50 of 253 nM and a median GI50 of 32 nM.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Mice bearing Colo205 xenografts
	Dosage form:	125 mg/kg; i.p.; 2 cycles of 3 daily injections separated by 1 week
	Applications:	GSK923295 exhibited robust and dose-dependent antitumor activity against Colo205 xenografts, including partial and complete regressions at the dose of 125 mg.
	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. Amin MA, McKenney RJ, et al. "Antagonism between the dynein and Ndc80 complexes at kinetochores controls the stability of kinetochore-microtubule attachments during mitosis." J Biol Chem. 2018 Apr 20;293(16):5755-5765.PMID:29475948

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## References

[1]. Wood K W et al. , Antitumor activity of an allosteric inhibitor of centromere-associated protein-E. 2010, 107 (13): 5839-5844.

## 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. Short-term 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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