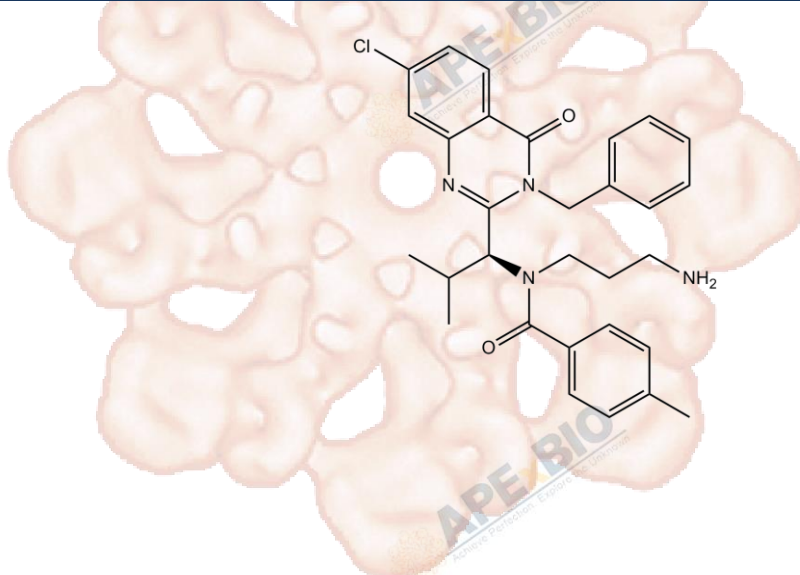


# Product Data Sheet

## Ispinesib (SB-715992)

<b>Cat. No.:</b>	A5343
<b>CAS No.:</b>	336113-53-2
<b>Formula:</b>	C30H33ClN4O2
<b>M.Wt:</b>	517.06
<b>Synonyms:</b>	
<b>Target:</b>	Cell Cycle/Checkpoint
<b>Pathway:</b>	Ksp
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥25.85 mg/mL in DMSO; insoluble in H<sub>2</sub>O; ≥48.4 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	1.9340 mL	9.6701 mL	19.3401 mL
	<b>5 mM</b>	0.3868 mL	1.9340 mL	3.8680 mL
	<b>10 mM</b>	0.1934 mL	0.9670 mL	1.9340 mL

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

### Biological Activity

Shortsummary

Kinesin spindle protein (KSP)inhibitor

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

Cell Line:	BT-474, MD A-MB-468 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:	72 h; GI50=45 nM (BT-474), GI50=19 nM (MD A-MB-468)

	Applications:	Cells were treated with increasing concentrations of ispinesib and ranked according to the concentration of drug required to reduce growth by 50%. The GI50 values were 45 nM and 19 nM for BT-474 and MD A-MB-468 cell lines, respectively.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Nude nu/nu mice, SCID mice
	Dosage form:	8 mg/kg (SCID), 10 mg/kg (nude); Intraperitoneal injection
	Applications:	Mice bearing tumor xenografts of MDA-MB-468 was treated i.p. with ispinesib at its MTD (SCID, 8 mg/kg; nude, 10 mg/kg) on its optimal q4d×3 schedule. The triple-negative xenograft model MDA-MB-468, among the most sensitive lines in vitro, exhibited the greatest ispinesib sensitivity in vivo. On ispinesib treatment, MDA-MB-468 tumors regressed completely in all mice, each scoring as TFS at the end of the study and 30 days beyond.
	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] Purcell J W, Davis J, Reddy M, et al. Activity of the kinesin spindle protein inhibitor ispinesib (SB-715992) in models of breast cancer[J]. Clinical Cancer Research, 2010, 16(2): 566-576.

## 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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**APEX BIO Technology**

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