

Product Name: BI6727 (Volasertib) Revision Date: 01/10/2021

Product Data Sheet

BI6727 (Volasertib)

Cat. No.: A8558

CAS No.: 755038-65-4 **Formula:** C34H50N8O3

M.Wt: 618.83

Synonyms: BI 6727; BI-6727

Target: Cell Cycle/Checkpoint

Pathway: PLK

Storage: Store at -20°C

Solvent & Solubility

insoluble in H2O; \geqslant 10.31 mg/mL in DMSO; \geqslant 56.1 mg/mL in EtOH

Mass Solvent 1mg 5mg 10mg Preparing Concentration In Vitro Stock Solutions 1 mM 1.6160 mL 8.0798 mL 16.1595 mL 1.6160 mL 3.2319 mL 5 mM 0.3232 mL 10 mM 0.8080 mL 1.6160 mL 0.1616 mL1

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

Biological Activity

Shortsummary	Plk inhibitor, highly potent	
IC ₅₀ & Target	0.87 nM (Polo-like kinase)	
In Vitro	Cell Viability Assay	Section 1997
	Cell Line:	Human melanoma A375 and Hs 294T 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:	24 h, 10-100 nM

	Applications:	BI6727 (Volasertib) is a second generation small molecule Plk1 inhibitor and
		has been reported to be a promising agent for treatment of several cancers.
		BI6727 (Volasertib) inhibits growth, viability and induces apoptosis of
		melanoma cells.
	Animal experiment	
In Vivo	Animal models:	Patients aged ≥ 18 years with locally advanced or metastatic urothelial
	o E	cancer
	Dosage form:	BI6727 (Volasertib) was administered by 2-hour intravenous infusion at a dose
		of 300 mg once daily on day 1 of 3-week treatment cycles.
	Applications:	BI6727 (Volasertib) has an acceptable safety profile as a second-line treatment
		for advanced or metastatic urothelial cancer, but only modest antitumor activity
		for further evaluation as a monotherapy.
	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
	Bloom	system error and it is normal.

Product Citations

- 1. Van der Feen DE, Kurakula K, et al. "Multicenter Preclinical Validation of BET Inhibition for the Treatment of Pulmonary Arterial Hypertension." Am J Respir Crit Care Med. 2019 May 1.PMID:31042405
- 2. Zheng DW, Xue YQ, et al. "Volasertib suppresses the growth of human hepatocellular carcinoma in vitro and in vivo." Am J Cancer Res. 2016 Nov 1;6(11):2476-2488.PMID:27904765

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References

- [1]. Cholewa B D, Ndiaye M A, Huang W, et al. Small molecule inhibition of polo-like kinase 1 by volasertib (BI 6727) causes significant melanoma growth delay and regression in vivo[J]. Cancer Letters, 2017, 385: 179-187.
- [2]. Stadler W M, Vaughn D J, Sonpavde G, et al. An open label, single arm, phase 2 trial of the polo like kinase inhibitor volasertib (BI 6727) in patients with locally advanced or metastatic urothelial cancer[J]. Cancer, 2014, 120(7): 976-982.

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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