

DATA SHEET

Product Name: Volasertib

Catalog #: CV-1045

Alt: CAS # 755038-65-4; N-[4-[4-(Cyclopropylmethyl)piperazin-1-yl]cyclohexyl]-4-[[[(7R)-7-ethyl-5-methyl-6-oxo-8-propan-2-yl-7H-pteridin-2-yl]amino]3-methoxybenzamide; BI 6727

Molecular Mass: 618.8

Analysis: >98% (HPLC); NMR (conforms)

Supplied As: Off-white powder

Resuspension: May be dissolved in DMSO (25 mg/ml)

Storage: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 1 months.

Description: Volasertib is an extremely potent and selective inhibitor of Polo-like kinase 1, a critical controller of multiple essential steps of mitosis (IC₅₀: Plk1=0.87 nM, Plk2=5 nM, Plk3=56 nM)¹. It has shown efficacy in multiple solid xenograft tumors models¹ and in clinical studies in patients with acute myeloid leukemia². Volasertib has also been shown to potently inhibit BRD4 (K_d=79 nM³, IC₅₀'s bromodomains 1 and 2 of BRD4=300 and 770 nM respectively³).

References:

1. Rudolph, D., et al., (2009) Clin. Cancer Res., 15: 3094
2. Rudolph, D., et al., (2015) J. Pharmacol. Exp. Ther., 352: 579
3. Ciceri, P., et al., (2014) Nat. Chem. Biol., 10: 305

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