

Catalog	Unit
TBI4818-5MG	5 mg
TBI4818-25MG	25 mg

### Product Details

**Formal Name:** 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

**Alternate Names:** BI 6727

**Molecular Formula:** C<sub>34</sub>H<sub>50</sub>N<sub>8</sub>O<sub>3</sub>

**Formula Weight:** 618.82

**CAS Number:** 755038-65-4

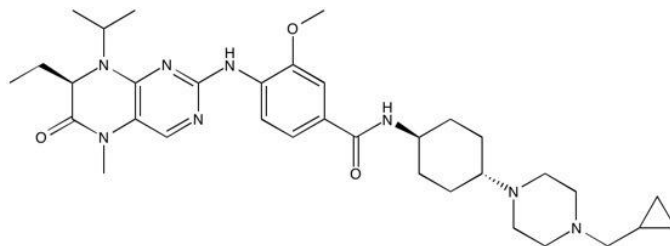
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to at least 25 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Potent and selective inhibitor of Polo-like Kinase 1

### Functions

Volasertib is an extremely potent and selective inhibitor (IC<sub>50</sub>'s: Plk1 = 0.87 nM, Plk2 = 5 nM, Plk3 = 56 nM) of Polo-like kinase, a critical controller of multiple essential steps of mitosis. It has shown efficacy in multiple solid xenograft tumors models and in clinical studies in patients with acute myeloid leukemia. Volasertib has also been shown to potently inhibit BRD4 (K<sub>d</sub> = 79 nM, IC<sub>50</sub>'s bromodomains 1 and 2 of BRD4 = 300 and 770 nM respectively).

### Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 1 month.

**For research use only.**