

## Buparlisib, PI3K inhibitor (pan-Class I)

Catalog	Unit
TBI4325-5MG	5 mg
TBI4325-25MG	25 mg

### Product Details

**Formal Name:** 5-(2,6-Dimorpholin-4-ylpyrimidin-4-yl)-4-(trifluoromethyl)pyridine-2-amine

**Alternate Names:** NVP-BKM120; BKM-120

**Molecular Formula:** C<sub>18</sub>H<sub>21</sub>F<sub>3</sub>N<sub>6</sub>O<sub>2</sub>

**Formula Weight:** 410.40

**CAS Number:** 944396-07-0

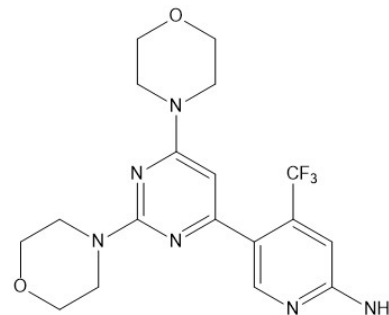
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 15 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

PI3K inhibitor (pan-Class I)

### Functions

Inhibits Class I PI3K isoforms [e.g. p110 $\alpha$  (IC<sub>50</sub> = 52 nM), p110 $\delta$  (IC<sub>50</sub> = 116 nM)] but not Class III or IV [e.g. Vps34, mTOR, PI4K $\beta$ ]. Blocks or pauses glioma cell cycle at G2/M depending on p53 status. At 5 mg/kg, efficiently inhibits phosphorylation of PI3K target AKT Ser473 in mouse brains. Augments chaperone-mediated autophagy (CMA) in lysosomes isolated from mouse liver.

### Application Procedures

First dissolved in DMSO (up to 15 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**