

## JIB-04, pan-JUMONJI histone demethylase inhibitor

Catalog	Unit
TBI1618-5MG	5 mg
TBI1618-25MG	25 mg

### Product Details

**Formal Name:** (E)-5-Chloro-2-(2-(phenyl(pyridine-2-yl)methylene)hydrazinyl)pyridine

**Molecular Formula:** C<sub>17</sub>H<sub>13</sub>ClN<sub>4</sub>

**Formula Weight:** 308.76

**CAS Number:** 199596-05-9

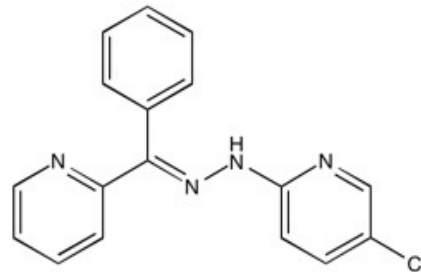
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 30 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

pan-JUMONJI histone demethylase inhibitor

### Functions

A novel specific inhibitor of the Jumonji family of histone demethylases in vitro, in cancer cells and in tumors in vivo. IC<sub>50</sub> = 230, 340, 435, 445, 855 and 1100 nM for JARID1A, JMJD2E, JMJD2B, JMJD2A, JMJD3 and JMJD2C respectively. Reduces tumor burden and prolongs life in a mouse model. Suppresses translation initiation and enhances mTOR inhibitor sensitivity. Inhibits the growth of temozolomide-resistant glioblastoma cells and crosses the blood brain barrier.

### Application Procedures

First dissolved in DMSO (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

**For research use only.**