

Catalog	Unit
TBI4039-5MG	5 mg
TBI4039-25MG	25 mg

### Product Details

**Formal Name:** 3-(3H-Imidazo[4,5-c]pyridine-2-yl)-6-methylchromen-2-one

**Alternate Names:** WL12

**Molecular Formula:** C<sub>16</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>

**Formula Weight:** 277.30

**CAS Number:** 899548-78-8

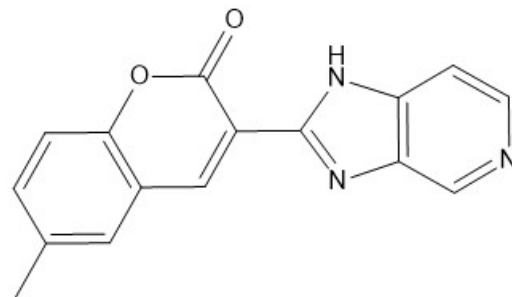
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 12 mg/ml with warming)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Arginine demethylase JMJD6 inhibitor

### Functions

Inhibitor of the arginine demethylase JMJD6 (IC<sub>50</sub> = 220 nM) with selectivity over other JmjC domain-containing proteins. Exhibited antiproliferative effects in HeLa (EC<sub>50</sub> = 1.49 μM), SMCC7721 (EC<sub>50</sub> = 9.37 μM), and MCF7 (EC<sub>50</sub> = 9.53 μM) cells. Displayed no cytotoxicity towards normal cervical, liver, and breast epithelial cells. iJMJD6 significantly suppressed tumor growth in a HeLa, SMCC7721, MCF7, MDA-MB-231, U87, and HCT116 mouse xenograft models.

### Application Procedures

First dissolved in DMSO (up to 12 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**