

## K-858, Kinesin Eg5 inhibitor

---

Catalog	Unit
TBI1312-5MG	5 mg
TBI1312-25MG	25 mg

### Product Details

**Formal Name:** N-(4-Acetyl-4,5-dihydro-5-methyl-5-phenyl-1,3,4-thiadiazol-2-yl)acetamide

**Molecular Formula:** C<sub>13</sub>H<sub>15</sub>N<sub>3</sub>O<sub>2</sub>S

**Formula Weight:** 277.35

**CAS Number:** 72926-24-0

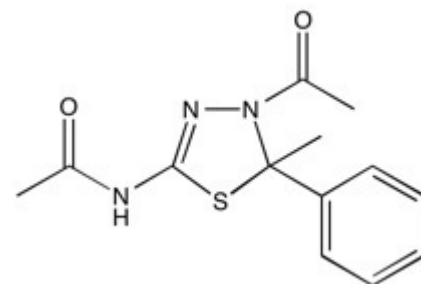
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 3 mg/ml)

**Storage:** RT

**Stability:** ≥ 1 year.



### Applications

Kinesin Eg5 inhibitor

### Functions

Selective mitotic kinesin Eg5 inhibitor (IC<sub>50</sub> = 1.3 μM) which acts in an ATP-noncompetitive manner. It is at least 150-fold more selective for Eg5 than other members of the kinesin superfamily. K858 blocks centrosome separation, activates the spindle checkpoint and induces mitotic arrest accompanied by the formation of monopolar spindles. Displays no effect on microtubule polymerization. Selectively displays antiproliferative effects via induction of mitotic cell death in cancer cells over nontransformed cells.

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 3 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 1 month.

**For research use only.**