

Catalog	Unit
TBI4684-5MG	5 mg
TBI4684-25MG	25 mg

### Product Details

**Formal Name:** 2-[[5-Cyano-4-(4-methylphenyl)-2-oxo-3,4-dihydro-1H-pyridin-6-yl]sulfanyl]-N-(1,3-thiazol-2-yl)acetamide

**Alternate Names:** Nec-34; 2-((3-Cyano-6-oxo-4-(p-tolyl)-1,4,5,6-tetrahydropyridin-2-yl)thio)-N-(thiazol-2-yl)acetamide

**Molecular Formula:** C<sub>18</sub>H<sub>16</sub>N<sub>4</sub>O<sub>2</sub>S<sub>2</sub>

**Formula Weight:** 384.5

**CAS Number:** 375835-43-1

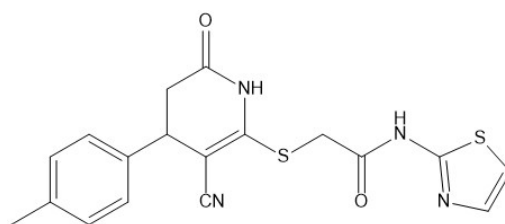
**Purity:** >98%

**Formulation:** Powder

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

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

RIP1 kinase inhibitor

### Functions

Selective inhibitor of RIP1 kinase. IC<sub>50</sub>s = 667 nM and 134 nM for TNF $\alpha$  in FAD-deficient Jurkat cells and L929 cells respectively. It binds to a site distinct from that of 7-Cl-O-Nec1 locking the enzyme in an inactive conformation. Necrostatin-34 acts synergistically with 7-Cl-O-Nec1 to inhibit necroptosis.

### Application Procedures

First dissolved in DMSO (25 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.**