

Catalog	Unit
TBI1636-5MG	5 mg
TBI1636-25MG	25 mg

### Product Details

**Formal Name:** 1-Benzyl-1-(1-butylpiperidin-4-yl)-3-(3,4-dichlorophenyl)urea

**Molecular Formula:** C<sub>23</sub>H<sub>29</sub>Cl<sub>2</sub>N<sub>3</sub>O

**Formula Weight:** 434.40

**CAS Number:** 2089293-61-6

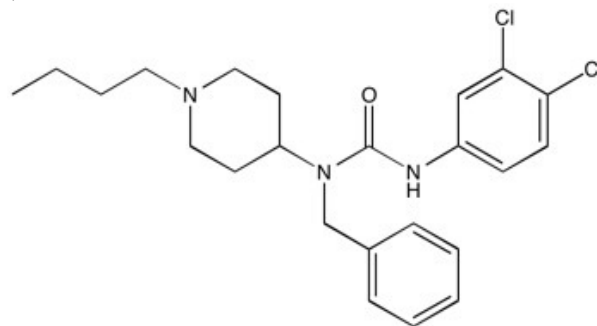
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 20 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

NEDD8 ligation inhibitor

### Functions

A potent and selective NEDD8 ligation inhibitor, IC<sub>50</sub>=80 nM (in vitro). It inhibits the N-terminal acetyl-dependent interaction between the E2 conjugating enzyme UBE2M/UBC12 and DCN1, a subunit of a multiprotein E3 ligase for the ubiquitin-like protein NEDD8, an interaction which is essential for assembly of the multiprotein ligation complex. NAcM-OPT inhibits NEDD8 ligation in vitro and in cells (IC<sub>50</sub>=10 μM) and suppresses anchorage-independent growth of HCC95 cells and is highly selective with respect to other N-terminal acetyl protein binding sites.

### Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in Ethanol (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

**For research use only.**