

Catalog	Unit
TBI1117 - 1G	1 g
TBI1117 - 5G	5 g

### Product Details

**Formal Name:** 4-[2-(3,5-Dimethyl-2-oxo-cyclohexyl)-2-hydroxyethyl]-2,6-piperidinedione.

**Alternate Names:** U-4527.

**Molecular Formula:** C<sub>15</sub>H<sub>23</sub>NO<sub>4</sub>.

**Formula Weight:** 281.4.

**CAS Number:** 66-81-9

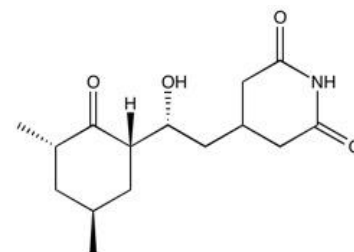
**Purity:** ≥98%

**Formulation:** Powder.

**Solubility:** Soluble in DMSO (25mg/ml); or ethanol (14 mg/ml); or water (7 mg/ml).

**Storage:** Ambient.

**Stability:** ≥ 2 years.



### Applications

Protein synthesis inhibitor.

### Functions

Translation inhibitor selectively inhibiting eukaryotic protein synthesis via inhibiting tRNA binding and release from ribosomes. Widely used as a tool for controlled inhibition of protein expression. May induce or inhibit apoptosis in various cell types. Typical active concentrations: 10-300 µg/ml. Cell permeable. Caution: Toxic

### Application Procedures

First dissolved in DMSO (25mg/ml) or ethanol (14 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

### Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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