

| Catalog       | Unit |
|---------------|------|
| TBI2798 - 1MG | 1 mg |
| TBI2798 - 5MG | 5 mg |

### Product Details

**Formal Name:** 2R-(Hydroxymethyl)-3R,4R,5R-piperidinetriol hydrochloride

**Alternate Names:** 1,5-Dideoxy-1,5-imino-D-mannitol hydrochloride

**Molecular Formula:** C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub> • HCl

**Formula Weight:** 199.63

**CAS Number:** 73465-43-7

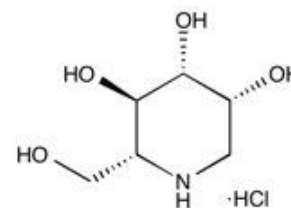
**Purity:** 98%

**Formulation:** Powder

**Solubility:** Soluble in Water (up to 5 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Mannosidase inhibitor

### Functions

Deoxymannojirimycin HCl (CAS 73465-43-7) is a potent and selective inhibitor of  $\alpha$ -mannosidase I. Inhibits the conversion of high mannose to complex oligosaccharides. Attenuates tunicamycin-, thapsigargin- and A $\beta$ 1-42-induced ER stress dependent neuronal cell death and protects primary cultured mouse cortical neurons from A $\beta$ 1-42 toxicity. Increases titers (4 fold) in the production of lentivirus vectors with enhanced efficiency in targeting dendritic cells.

### Application Procedures

Dissolved in water (up to 5 mg/ml). Solutions in distilled water 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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