

## MreB Inhibitor A22, Disrupts bacterial actin cytoskeleton

Catalog	Unit
TBI5275-10MG	10 mg
TBI5275-50MG	50 mg

### Product Details

**Formal Name:** 2-(3,4-Dichloro-benzyl)-isothiourea, hydrochloride

**Alternate Name:** MreB Perturbing Compound A22

**Molecular Formula:** C<sub>8</sub>H<sub>8</sub>Cl<sub>2</sub>N<sub>2</sub>S • HCl

**Formula Weight:** 271.6

**CAS Number:** 22816-60-0

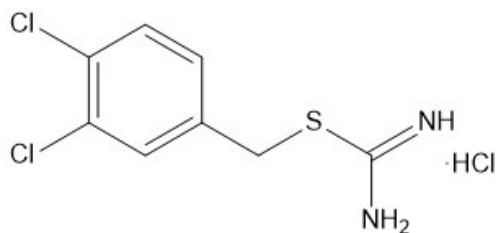
**Purity:** >98%

**Formulation:** Powder

**Solubility:** Soluble in Water (6 mg/ml); or DMSO (30 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Disrupts bacterial actin cytoskeleton

### Functions

Disrupts the actin cytoskeleton of bacteria causing defects in morphology and chromosome segregation. It is a competitive inhibitor of ATP binding to MreB and has the ability to disassemble the actin cytoskeleton in bacterial cells. It displays antibacterial activity against *P. aeruginosa* (among many others) including multidrug-resistant clinical isolates and points to MreB as a new target for antibacterial development. Significantly disrupts biofilm formation by interfering with the ability of bacterial cells to maintain shape and adherence to surfaces.

### Application Procedures

First dissolved in Soluble in Water (6 mg/ml) or DMSO (30 mg/ml), then diluted to aqueous buffer. Solutions in water or DMSO may be stored at -20°C for up to 3 months.

**For research use only.**