Bethoxazin

**Cat. No.:** HY-17525  
**CAS No.:** 163269-30-5  
**Molecular Formula:** C₁₁H₉NO₂S₂  
**Molecular Weight:** 251.32  
**Target:** Bacterial  
**Pathway:** Anti-infection  
**Storage:** Please store the product under the recommended conditions in the COA.

### Solvent & Solubility

**In Vitro**  
10 mM in DMSO

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>3.9790 mL</td>
<td>19.8950 mL</td>
<td>39.7899 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.7958 mL</td>
<td>3.9790 mL</td>
<td>7.9580 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.3979 mL</td>
<td>1.9895 mL</td>
<td>3.9790 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

**Description**  
Bethoxazin (Bethoguard) is a new broad spectrum industrial microbicide with applications in material and coating preservation. IC50 value: Target: Microbicide Bethoxazin potently inhibited the catalytic activity of yeast DNA topoisomerase II and the growth of yeast BY4742 cells at low micromolar concentrations. Bethoxazin may exert its microbicidal action by reacting with sensitive endogenous sulfhydryl biomolecules of microbial cells.

### REFERENCES


**Caution:** Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898  
Fax: 609-228-5909  
E-mail: tech@MedChemExpress.com  
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA