Tobramycin

Cat. No.: HY-B0441
CAS No.: 32986-56-4
Molecular Formula: C₁₈H₃₇N₅O₉
Molecular Weight: 467.51
Target: Bacterial; Antibiotic
Pathway: Anti-infection
Storage: Powder -20°C 3 years
         4°C  2 years
         In solvent -80°C 6 months
                   -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (213.90 mM)
DMSO : 2 mg/mL (4.28 mM; Need ultrasonic)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Solvent</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mg</td>
<td>5 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td>2.1390 mL</td>
<td>10.6950 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4278 mL</td>
<td>2.1390 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2139 mL</td>
<td>1.0695 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description

Tobramycin (Netramycin Factor 6) is a parenterally administered, broad spectrum aminoglycoside antibiotic that is widely used in the treatment of moderate to severe bacterial infections due to sensitive organisms[1].

REFERENCES

[1]. Tobramycin.
Caution: Product has not been fully validated for medical applications. For research use only.

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