Toltrazuril sulfone

Cat. No.: HY-17008
CAS No.: 69004-04-2
Molecular Formula: C₁₈H₁₄F₃N₃O₆S
Molecular Weight: 457.38
Target: Parasite
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 DMSO : ≥ 33 mg/mL (72.15 mM)
* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.1864 mL</td>
<td>10.9318 mL</td>
<td>21.8637 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4373 mL</td>
<td>2.1864 mL</td>
<td>4.3727 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2186 mL</td>
<td>1.0932 mL</td>
<td>2.1864 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description

Toltrazuril sulfone is an antiprotozoal agent that acts upon Coccidia parasites. IC₅₀ Value: Target:
Antiparasitic Ponazuril (INN, Toltrazuril sulfone), sold by the Bayer Corporation under the trade name Marquis, is a drug currently approved for the treatment of equine protozoal myeloencephalitis in horses, caused by Sarcocystis neurona. More recently, veterinarians have been preparing a formulary version of the medication for use in small animals such as cats and dogs against coccidia, an intestinal parasite. Coccidia treatment is far shorter than treatment for EPM. Ponazuril (INN, Toltrazuril sulfone) is useful for Antiprotozoal.

REFERENCES

[1]. Pharmacokinetics of ponazuril after oral administration to healthy llamas (Lama glama) By Prado, Maria E.; Ryman, Josiah T.; Boileau, Melanie J.; Martin-Jimenez, Tomas; Meibohm, Bernd From American Journal of Veterinary Research (2011), 72(10), 1386-1389


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