Aristeromycin

Cat. No.: HY-112639  
CAS No.: 19186-33-5  
Molecular Formula: C₁₁H₁₅N₅O₃  
Molecular Weight: 265.27  
Target: Bacterial  
Pathway: Anti-infection  
Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

**BIOLOGICAL ACTIVITY**

<table>
<thead>
<tr>
<th>Description</th>
<th>Aristeromycin, an adenosine analog, is an antibiotic and a potent S-adenosylhomocysteine hydrolase (AHCY) inhibitor[1][2].</th>
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<tbody>
<tr>
<td><strong>IC₅₀ &amp; Target</strong></td>
<td>S-adenosylhomocysteine hydrolase[1]</td>
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</table>
| **In Vitro** | The IC₅₀ value of Aristeromycin against AHCY is 38.5 nM at 50 μM S-adenosylhomocysteine (SAH) (approximately equal to the Km: 48 μM), but 271 nM at 1000 μM SAH (20× Km). With 60 min of preincubation, the mean IC₅₀ value of Aristeromycin at 50 μM SAH is 12.7 nM[1].  
Aristeromycin has IC₅₀ values of 3.2 μM for LNCaP-FGC cell growth and 0.88 μM for LNCaP-hr cell growth[1].  
At least in part, Aristeromycin can regulate oncogenic EZH2 expression by inducing miR-26a[1].  
MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

**REFERENCES**


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

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