5-Iodotubercidin

Potent adenosine kinase inhibitor and nucleoside transporter inhibitor

Product Description

Catalog #: LSA090, 5mg
Name: 5-Iodotubercidin
CAS [24386-93-4]
MW: 392.15
C11H13IN4O4
Purity: >98%
Solubility: DMSO Ethanol
Storage: Cool and dry place

Technical and Scientific Information

5-Iodotubercidin is a potent adenosine kinase inhibitor (IC50 = 26 nM). 5-Iodotubercidin is also a nucleoside transporter inhibitor (IC50 values are < 25 nM, 7 μM and 15 μM for inhibition of [3H]adenosine, [3H]uridine and [3H]formycin B uptake respectively). 5-Iodotubercidin increases fatty acid oxidation activity and glycogen synthesis in hepatocytes. In cultured rat hepatocytes, 5-iodotubercidin inhibits both acetyl-CoA carboxylase and de novo synthesis of fatty acids and cholesterol. 5-Iodotubercidin also inhibits CK1, insulin receptor tyrosine kinase, phosphorylase kinase, PKA, CK2 and PKC (IC50 values are 0.4, 3.5, 5-10, 5-10, 10.9 and 27.7 μM respectively).

Quality control

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to off-white solid</td>
</tr>
<tr>
<td>Identification</td>
<td>1H NMR spectrum of sample corresponds to that of standard preparation</td>
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<tr>
<td></td>
<td>Mass spectrum of sample corresponds to that of standard preparation</td>
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<tr>
<td></td>
<td>The retention time of the major peak in the chromatogram of sample corresponds to that in the chromatogram of standard preparation</td>
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<tr>
<td>Purity by HPLC</td>
<td>&gt;98.0%</td>
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</tbody>
</table>

References


**Ordering information**

Catalog size quantities and prices may be found at [http://www.interchim.com](http://www.interchim.com).

Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information

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