(+)-Usnic acid

Cat. No.: HY-N0656A
CAS No.: 7562-61-0
Molecular Formula: C₁₈H₁₆O₇
Molecular Weight: 344.32
Target: mTOR
Pathway: PI3K/Akt/mTOR
Storage: 4°C, protect from light
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

**BIOLOGICAL ACTIVITY**

<table>
<thead>
<tr>
<th>Description</th>
<th>(+)-Usnic acid is isolated from lichens, binds at the ATP-binding pocket of mTOR, and inhibits mTORC1/2 activity. (+)-Usnic acid inhibits the phosphorylation of mTOR downstream effectors: Akt (Ser473), 4EBP1, S6K, induces autophagy, with anti-cancer activity.[1].</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC₅₀ &amp; Target</td>
<td>mTORC1</td>
</tr>
</tbody>
</table>

**REFERENCES**