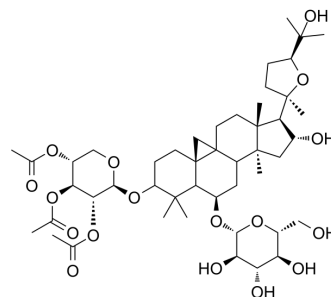


Acetyltragaloside I

Cat. No.:	HY-N1985
CAS No.:	84687-47-8
Molecular Formula:	C ₄₇ H ₇₄ O ₁₇
Molecular Weight:	911.08
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Acetyltragaloside I is a glycoside that can be isolated from the roots of <i>Astragalus baibutensis</i> . Acetyltragaloside I is the first cycloartane-type triterpene with remarkable trypanocidal activity with IC ₅₀ values of 9.5 and 5.0 µg/mL for <i>T. brucei rhodesiense</i> and <i>T. cruzi</i> , respectively. Acetyltragaloside I can be used for the research of trypanosome infection ^[1] .								
IC₅₀ & Target	IC ₅₀ : 9.5 µg/mL (<i>T. brucei rhodesiense</i>), 5.0 µg/mL (<i>T. cruzi</i>), 30 µg/mL (<i>L. donovani</i>), 20 µg/mL (<i>P. falciparum</i>), 24.2 µg/mL (L6 cells) ^[1]								
In Vitro	<p>Acetyltragaloside I (0.123-90 µg/mL; 72-96 h) shows in vitro antiprotozoal activity to <i>T. brucei rhodesiense</i>, <i>T. cruzi</i>, <i>L. donovani</i> and <i>P. falciparum</i> with IC₅₀ values of 9.5, 5.0, 30 and 20 µg/mL, respectively^[1].</p> <p>Acetyltragaloside I (0.123-90 µg/mL; 72 h) exhibits cytotoxicity effects to rat skeletal myoblasts (L6) cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Rat skeletal myoblasts (L6) cell line</td> </tr> <tr> <td>Concentration:</td> <td>0.123-90 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>72 hours</td> </tr> <tr> <td>Result:</td> <td>Showed cytotoxicity to L6 cells with an IC₅₀ value of 24.2 µg/mL.</td> </tr> </table>	Cell Line:	Rat skeletal myoblasts (L6) cell line	Concentration:	0.123-90 µg/mL	Incubation Time:	72 hours	Result:	Showed cytotoxicity to L6 cells with an IC ₅₀ value of 24.2 µg/mL.
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Result:	Showed cytotoxicity to L6 cells with an IC ₅₀ value of 24.2 µg/mL.								

REFERENCES

[1]. Caliş I, et al. Antitrypanosomal cycloartane glycosides from *Astragalus baibutensis*. *Chem Biodivers*. 2006 Aug;3(8):923-9.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA