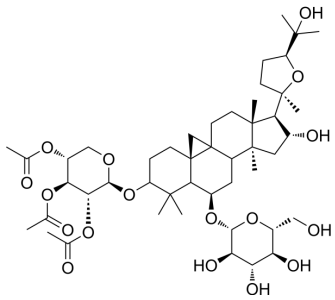
Acetylastragaloside I

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	Acetylastragaloside I is a glycoside that can be isolated from the roots of Astragalus baibutensis. Acetylastragaloside I is the first cycloartane-type triterpene with remarkable trypanocidal activity with IC_{50} values of 9.5 and 5.0 μg/mL for ***T. brucei rhodesiense*** and ***T. cruzi***, respectively. Acetylastragaloside I can be used for the research of trypanosome infection[1].
IC_{50} & Target	IC50: 9.5 μg/mL (T. brucei rhodesiense), 5.0 μg/mL (T. cruzi), ⊠30 μg/mL (L. donovani), ⊠20 μg/mL (P. falciparum), 24.2 μg/mL (L6 cells)[1]
In Vitro	Acetylastragaloside I (0.123-90 μg/mL; 72-96 h) shows in vitro antiprotozoal activity to T. brucei rhodesiense, T. cruzi, L. donovani and P. falciparum with IC_{50} values of 9.5, 5.0, ⊠30 and ⊠20 μg/mL, respectively[1]. Acetylastragaloside I (0.123-90 μg/mL; 72 h) exhibits cytotoxicity effects to rat skeletal myoblasts (L6) cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

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.

REFERENCES

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

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