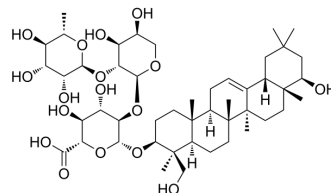


Soyasaponin II

Cat. No.:	HY-122920
CAS No.:	55319-36-3
Molecular Formula:	C ₄₇ H ₇₆ O ₁₇
Molecular Weight:	913.1
Target:	HSV; CMV; Influenza Virus; HIV; NOD-like Receptor (NLR); YB-1
Pathway:	Anti-infection; Immunology/Inflammation; Cell Cycle/DNA Damage
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Soyasaponin II is a saponin with antiviral activity. Soyasaponin II inhibits the replication of HSV-1, HCMV, influenza virus, and HIV-1. Soyasaponin II shows potent inhibition on HSV-1 replication. Soyasaponin II serves as a inhibitor for YB-1 phosphorylation and NLRP3 inflammasome priming and could protect mice against LPS/GaIN induced acute liver failure ^[1] [2].			
IC₅₀ & Target	HSV-1 54 μM (IC ₅₀)	HIV-1 112 μM (IC ₅₀)	influenza virus 88 μM (IC ₅₀)	HCMV 104 μM (IC ₅₀)
	NLRP3 inflammasome			
In Vitro	Soyasaponin II inhibits the replication of HSV-1 (IC ₅₀ =54μM), HCMV (104μM), influenza virus (88μM), and HIV-1 (112 μM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	Soyasaponin II (5 mg/kg; p.o.; once a day for three consecutive days) ameliorates canonical NLRP3 inflammasome-associated innate immune response ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Hayashi K, et al. Inhibitory activity of soyasaponin II on virus replication in vitro. *Planta Med.* 1997;63(2):102-105.

[2]. Wang F, et al. Soyasaponin II protects against acute liver failure through diminishing YB-1 phosphorylation and Nlrp3-inflammasome priming in mice. *Theranostics.* 2020;10(6):2714-2726. Published 2020 Feb 3.

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

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