

# Produktinformation



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# Zuschläge

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## SZABO-SCANDIC HandelsgmbH

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# **PRODUCT** INFORMATION



### Soyasaponin II

Item No. 40661

CAS Registry No.: Formal Name:	55319-36-3 (3 $\beta$ ,4 $\beta$ ,22 $\beta$ )-22,23-dihydroxyolean-12- en-3-yl O-6-deoxy- $\alpha$ -L-mannopyranosyl- (1 $\rightarrow$ 2)-O- $\alpha$ -L-arabinopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-	ОН
	glucopyranosiduronic acid	
Synonyms:	Soyasaponin Bc, Soyasaponin BII	HO. OH
MF:	$C_{47}H_{76}O_{17}$	
FW:	913.1	
Purity:	≥98%	HO.
Supplied as:	A solid	
Storage:	-20°C	HOME
Stability:	≥4 years	OH OH
Item Origin:	Plant/Sophora moorcroftiana	Un

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

#### Laboratory Procedures

Soyasaponin II is supplied as a solid. A stock solution may be made by dissolving the soyasaponin II in the solvent of choice, which should be purged with an inert gas. Soyasaponin II is slightly soluble (0.1-1 mg/ml) in chloroform and methanol and sparingly soluble (1-10 mg/ml) in DMSO.

Soyasaponin II is sparingly soluble (1-10 mg/ml) in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

#### Description

Soyasaponin II is a saponin that has been found in soybeans and has diverse biological activities.<sup>1-3</sup> It inhibits the proliferation of, and induces apoptosis in, HeLa cells when used at concentrations ranging from 100 to 400 mg/L $^{1}$  It inhibits viral replication in cells infected with herpes simplex virus 1 (HSV-1), human cytomegalovirus (HCMV), or influenza virus (IC<sub>50</sub>s = 54, 104, and 88  $\mu$ M, respectively).<sup>2</sup> In vivo, soyasaponin II (5 mg/kg) prevents the development of acute liver failure in a mouse model of LPS/D-galactosamineinduced acute liver injury.<sup>3</sup>

#### References

- 1. Xiao, J.-X., Huang, G.-Q., and Zhang, S.-H. Soyasaponins inhibit the proliferation of Hela cells by inducing apoptosis. Exp. Toxicol. Pathol. 59(1), 35-42 (2007).
- 2. Hayashi, K., Hayashi, H., Hiraoka, N., et al. Inhibitory activity of soyasaponin II on virus replication in vitro. Planta Med. 63(2), 102-105 (1997).
- 3. Wang, F., Gong, S., Wang, T., et al. Soyasaponin II protects against acute liver failure through diminishing YB-1 phosphorylation and NIrp3-inflammasome priming in mice. Theranostics 10(6), 2714-2726 (2020).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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