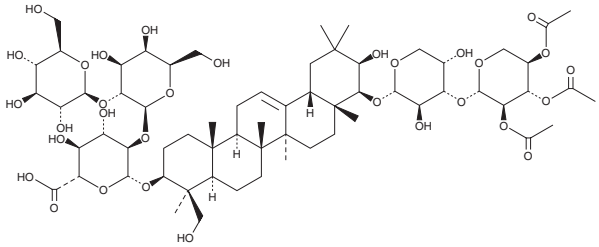
PRODUCT INFORMATION

Soyasaponin Aa

Item No. 46118

CAS Registry No.: 117230-33-8
Formal Name: (3β,4β,21β,22β)-21,23-dihydroxy-22-[[3-O-(2,3,4-tri-O-acetyl-β-D-xylopyranosyl)-α-L-arabinopyranosyl]oxy]olean-12-en-3-yl O-β-D-glucopyranosyl-(1→2)-O-β-D-galactopyranosyl-(1→2)-β-D-glucopyranosiduronic acid
Synonym: Acetylsoyasaponin A_4
MF: $C_{64}H_{100}O_{31}$
FW: 1,365.5
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Plant/Soybean



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

Laboratory Procedures

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

Description

Soyasaponin Aa is a triterpenoid saponin that has been found in *G. max* and has antioxidant and lipid-lowering activities.[1,2] It reverses hydrogen peroxide-induced increases in malondialdehyde (MDA) levels and decreases in superoxide dismutase (SOD), glutathione peroxidase (GPX), and catalase (CAT) activities in HepG2 cells at 100 µg/ml.[1] Soyasaponin Aa (100 µM) inhibits peroxisome proliferator-activated receptor γ (PPARγ) transactivation in a reporter assay using HEK293T cells and decreases lipid accumulation in 3T3-L1 adipocytes.[2]

References

1. Zhu, L., Zhang, M., Liu, X., *et al.* Evaluation of in vitro antioxidant activities of soyasaponins from soy hypocotyls in human HepG2 cell line. *Chem. Pap.* **71**, 653–660 (2017).
2. Yang, S.H., Ahn, E.-K., Lee, J.A., *et al.* Soyasaponins Aa and Ab exert an anti-obesity effect in 3T3-L1 adipocytes through downregulation of PPARγ. *Phytother. Res.* **29(2)**, 281-287 (2015).

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

SAFETY 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.

WARRANTY AND LIMITATION OF REMEDY
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