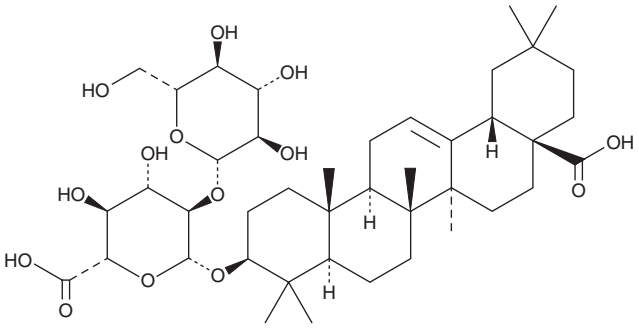
PRODUCT INFORMATION

Zingibroside R1

Item No. 34130

CAS Registry No.:	80930-74-1
Formal Name:	(3β)-17-carboxy-28-norolean-12-en-3-yl 2-O-β-D-glucopyranosyl-β-D-glucopyranosiduronic acid
Synonyms:	Ginsenoside Z-R_1, Polysciasaponin P_5
MF:	$C_{42}H_{66}O_{14}$
FW:	795.0
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Panax pseudoginseng*



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

Laboratory Procedures

Zingibroside R1 is supplied as a solid. A stock solution may be made by dissolving the zingibroside R1 in the solvent of choice, which should be purged with an inert gas. Zingibroside R1 is soluble in ethanol and DMSO.

Description

Zingibroside R1 is a triterpene saponin and an active metabolite of ginsenoside Ro (Item No. 25137) that has been found in *P. japonicus*.[1,2] It is cytotoxic to B16/F10 murine melanoma cells (IC_{50} = 24.52 µg/ml) and inhibits tube formation by human umbilical vein endothelial cells (HUVECs) when used at a concentration of 40 µg/ml. Zingibroside R1 (25 mg/kg) reduces tumor growth in a B16/F10 murine melanoma model.

References

1. Yoshizaki, K., Devkota, H.P., Fujino, H., *et al.* Saponins composition of rhizomes, taproots, and lateral roots of Satsuma-ninjin (*Panax japonicus*). *Chem. Pharm. Bull. (Tokyo)* **61(3)**, 344-350 (2013).
2. Zheng, S.-W., Xiao, S.-Y., Wang, J., *et al.* Inhibitory effects of ginsenoside ro on the growth of B16F10 melanoma via its metabolites. *Molecules* **24(16)**, 2985 (2019).

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