

Table S1. Glycosyl types of protopanaxadiol (PPD) saponins

Ginsenoside types	R1 perssad	R2 perssad	R3 perssad	Molecular formula
Ginsenoside F2	-Glc	-Glc	-OH	C ₄₂ H ₇₂ O ₁₅
Ginsenoside Rb3	-Glc2-1Glc	-Glc6-1Xy1	-OH	C ₅₃ H ₉₀ O ₂₂
Ginsenoside Ra1	-Glc2-1Glc6-Mal	-Glc6-1Ara(p)4- 1Xy1	-OH	C ₅₈ H ₉₈ O ₂₆
Ginsenoside Ra2	-Glc2-1Glc6-Mal	-Glc6-1Ara(f)4-1Xy1	-OH	C ₅₈ H ₉₈ O ₂₆
(20S)-Ginsenoside Rg3	-Glc2-1Glc	-H:20(S)	-OH	C ₄₂ H ₇₂ O ₁₃
(20R)-Ginsenoside Rg3	-Glc2-1Glc	-H:20(R)	-OH	C ₄₂ H ₇₂ O ₁₃
(20S)-Ginsenoside Rg3	-Glc	-H:20(S)	-OH	C ₃₆ H ₆₂ O ₈
(20R)-Ginsenoside Rh2	-Glc	-H:20(R)	-OH	C ₃₆ H ₆₂ O ₈
Ginsenoside Rs1	-Glc2-1Glc6-Ac	-Glc6-1Ara(p)	-OH	C ₅₅ H ₉₂ O ₂₃
Ginsenoside Rd	-Glc2-1Glc	-Glc	-OH	C ₄₈ H ₈₂ O ₁₈
Ginsenoside Rb2	-Glc2-1Glc	-Glc6-1Ara(p)	-OH	C ₅₃ H ₉₀ O ₂₂
Ginsenoside Rb1	-Glc2-1Glc	-Glc6-1Xy1	-OH	C ₅₃ H ₉₀ O ₂₂
Ginsenoside Rc	-Glc2-1Glc	-Glc6-1Ara(f)	-OH	C ₅₃ H ₉₀ O ₂₂
Ginsenoside XVII	-Glc	-Glc6-1Glc	-OH	C ₄₈ H ₈₂ O ₂₀
Noto-ginsenoside Fe	-Glc	-Glc6-1Ara(f)	-OH	C ₄₇ H ₈₀ O ₁₇

Table S2. Glycosyl types of protopanaxatriol (PPT) saponins

Ginsenoside types	R1 perssad	R2 perssad	R3 perssad	Molecular formula
Ginsenoside F1	-H	-Glc	-H	C ₃₆ H ₆₂ O ₉
Ginsenoside F3	-H	-Glc6-1Ara(p)	-H	C ₅₃ H ₉₂ O ₂₄
Ginsenoside Ia	-H	-Glc	-Glc	C ₄₂ H ₇₂ O ₁₄
Ginsenoside Re	-Glc2-1Rha	-Glc	-H	C ₄₈ H ₈₂ O ₁₈
Ginsenoside Rg1	-Glc	-Glc	-H	C ₄₂ H ₇₂ O ₁₄
(20S)-Ginsenoside Rg2	-Glc2-1Rha	-H:20(S)	-H	C ₄₂ H ₇₂ O ₁₃
(20R)-Ginsenoside Rg2	-Glc2-1Rha	-H:20(R)	-H	C ₄₂ H ₇₂ O ₁₃
(20S)-Ginsenoside Rh1	-Glc	-H:20(S)	-H	C ₃₆ H ₆₂ O ₉
(20R)-Ginsenoside Rh1	-Glc	-H:20(R)	-H	C ₃₆ H ₆₂ O ₉
Vina-ginsenoside R1	=O	-H	-OH	C ₄₁ H ₇₀ O ₁₃
Pseudo-ginsenoside F11	=O	-H	-OH	C ₄₂ H ₇₂ O ₁₄