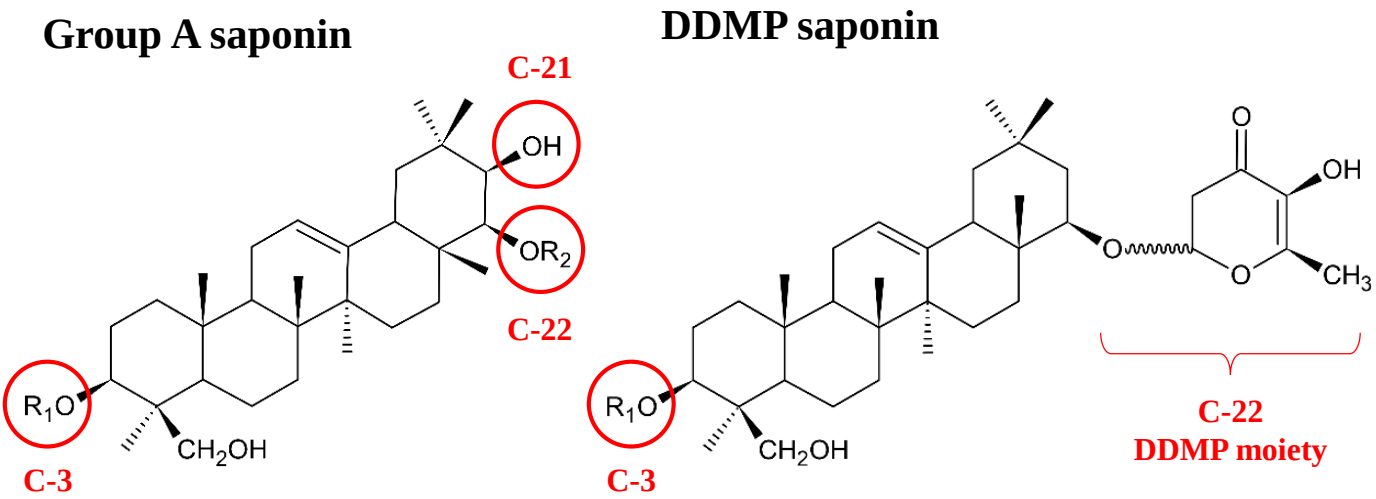
a



b

R_1 (C-3 position)	C-22 position					
	Soyasapogenol A (R_2)			Soyasapogenol B		
	Group A saponin			DDMP	Group B	Group E
	-Ara-acetylXyl	-Ara-acetylGlc	-Ara	-DDMP	-OH	=O
Glc-Gal-GlcUA-	Aa-αg	Ab-αg	A0-αg	DDMP-αg	B-αg	E-αg
Rha-Gal-GlcUA-	Aa-βg	Ab-βg	A0-βg	DDMP-βg	B-βg	E-βg
Gal-GlcUA-	Aa-γg	Ab-γg	A0-γg	DDMP-γg	B-γg	E-γg
Glc-Ara-GlcUA-	Aa-αa	Ab-αa	A0-αa	DDMP-αa	B-αa	E-αa
Rha-Ara-GlcUA-	Aa-βa	Ab-βa	A0-βa	DDMP-βa	B-βa	E-βa
Ara-GlcUA-	Aa-γa	Ab-γa	A0-γa	DDMP-γa	B-γa	E-γa

Figure S1 Structure and nomenclature of soybean saponins. (a) Backbone structure of group A saponin and DDMP saponin. Group A saponins have soyasapogenol A as their aglycone structure and they have two sugar chain at the C-3 position and C-22 position. DDMP saponins have DDMP-conjugated soyasapogenol B as their aglycone structure and one sugar chain at the C-3 position. (b) Nomenclature of soybean saponins. Soybean saponins are named by their sapogenol type and sugar chain type. The letters before the hyphen indicate their moiety at the C-22 position, and the letters after the hyphen indicate their moiety at the C-3 position.