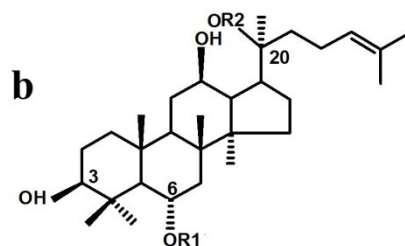
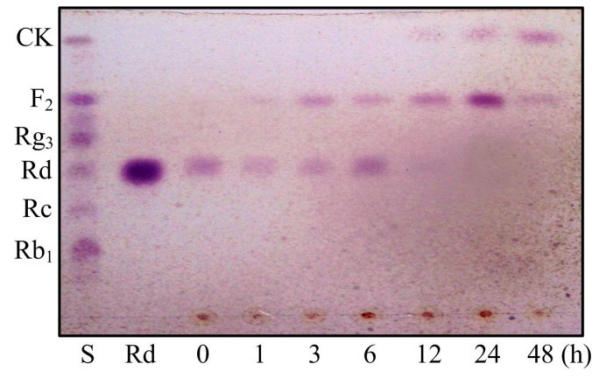


Ginsenoside	R <sub>1</sub> (C-3)	R <sub>2</sub> (C-20)
Rb <sub>1</sub>	Glc(2→1)Glc	Glc(6→1)Glc
Rb <sub>2</sub>	Glc(2→1)Glc	Glc(6→1)Araf
Rc	Glc(2→1)Glc	Glc(6→1)Araf
Rd	Glc(2→1)Glc	Glc
Compound O	Glc	Glc(6→1)Araf
Compound Y	H	Glc(6→1)Araf
Compound Mc-1	Glc	Glc(6→1)Araf
Compound Mc	H	Glc(6→1)Araf
F <sub>2</sub>	Glc	Glc
Rg <sub>3</sub>	Glc(6→1)Araf	H
Rh <sub>2</sub>	Glc	H
Compound K	H	Glc



Ginsenoside	R <sub>1</sub> (C-6)	R <sub>2</sub> (C-20)
Re	Glc(2→1)Rha	Glc
R <sub>1</sub>	Glc(2→1)Xyl	Glc
R <sub>2</sub>	Glc(2→1)Xyl	H
Rf	Glc(2→1)Glc	H
Rg <sub>1</sub>	Glc	Glc
Rg <sub>2</sub>	Glc(2→1)Rha	H
Rh <sub>1</sub>	Glc	H
F <sub>1</sub>	H	Glc

**Fig. S1.** Chemical structures of ginsenosides.



**Fig. S2.** TLC profiles for the biotransformation of ginsenoside Rd by recombinant  $\beta$ -glucosidase from *B. breve*.