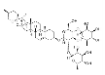
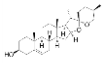
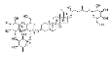
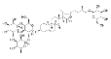
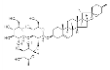
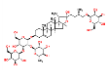
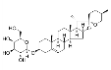
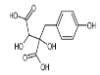
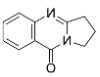
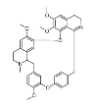
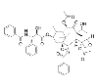
Supplementary Table 1. Swiss ADME parameters for potential ingredients in DXXK

Molecule	**2D-Structur**	**Molecular formula**	**GI absorption**	**Lipinski**	**Ghose**	**Veber**	**Egan**	**Muegge**	**Antidiabetic activity**
Dioscin		$C_{45}H_{72}O_{16}$	Low	No	No	No	No	No	Yes [1]
Diosgenin		$C_{27}H_{42}O_3$	High	Yes	No	Yes	Yes	No	Yes [2]
Protodioscin		$C_{51}H_{84}O_{22}$	Low	No	No	No	No	No	Yes [3]
Pseudoproto-dioscin		$C_{51}H_{82}O_{21}$	Low	No	No	No	No	No	Yes [4]
Methyl protodioscin		$C_{52}H_{86}O_{22}$	Low	No	No	No	No	No	Yes [5]
Gracillin		$C_{45}H_{72}O_{17}$	Low	No	No	No	No	No	Yes [6]
Protogracillin		$C_{51}H_{84}O_{23}$	Low	No	No	No	No	No	No
Trillin		$C_{33}H_{52}O_8$	High	Yes	No	Yes	Yes	Yes	Yes [7]
Piscidic acid		$C_{11}H_1O_7$	Low	Yes	No	Yes	No	Yes	No
Deoxyvasici-none		$C_{11}H_{10}N_2O$	High	Yes	Yes	Yes	Yes	No	No
Epistephanine		$C_{37}H_{38}N2O_6$	High	Yes	No	Yes	No	No	No
7-Epitaxol		$C_{47}H_{51}NO_{14}$	Low	No	No	No	No	No	No
Smitilbin		$C_{42}H_{42}O_{22}$	Low	No	No	No	No	No	No

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