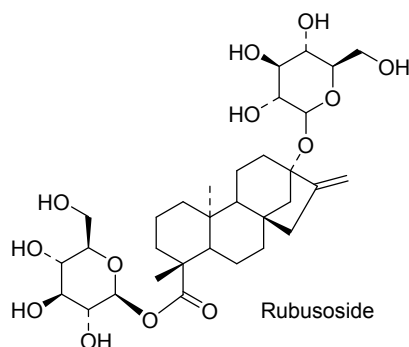
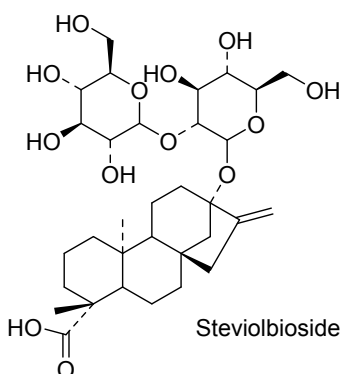




Rubusoside(Ru): Mass spectrum, m/z : 641.5, $[M_{\text{rubusoside}}-H]^-$, 479.4, $[M_{\text{rubusoside}}-\text{Glc}-H]^-$; ^{13}C NMR, 41.1(C1), 19.8(C2), 38.7(C3), 44.4(C4), 57.7(C5), 22.5(C6), 42.1(C7), 42.8(C8), 54.3(C9), 40.2(C10), 21.0(C11), 37.7(C12), 86.3(C13), 44.9(C14), 48.1(C15), 154.9(C16), 104.8(C17), 28.7(C18), 177.3(C19), 61.0(C20); C13-O-Glc, 96.3(C1), 74.4(C2), 79.5(C3), 71.5(C4), 79.7(C5), 62.5(C6); C19-O-Glc, 100.1(C1), 75.9(C2), 79.2(C3), 72.8(C4), 78.4(C5), 63.5(C6); ^1H NMR(400 MHz, Pyridine- d_5) δ aglycone: 5.54(s, 1H, H-17), 5.03(s, 1H, H-17), 1.27(s, 3H, H3-20), 1.26(s, 3H, H3-18); 13-O-Glc: 5.15(d, $J=7.7$ Hz, 1H, H-1), 4.62(dd, $J=11.7$, 2.5 Hz, 1H, H-6b), 4.32(m, 1H, H-6a); 19-O-Glc: 6.15(d, $J=7.5$ Hz, 1H, H-1), 4.46(dd, $J=12.0$, 2.5 Hz, 1H, H-6b), 4.38(dd, $J=15.4$, 3.3 Hz, 1H, H-6a).



Steviolbioside(Sbio): Mass spectrum, m/z : 641.5, $[M_{\text{steviolbioside}}-H]^-$, 479.4, $[M_{\text{steviolbioside}}-\text{Glc}-H]^-$; ^{13}C NMR, 40.77(C1), 19.57(C2), 38.42(C3), 43.64(C4), 56.72(C5), 22.37(C6), 42.46(C7), 41.49(C8), 53.95(C9), 39.54(C10), 20.43(C11), 37.02(C12), 85.89(C13), 44.61(C14), 47.77(C15), 154.12(C16), 106.47(C17), 29.09(C18), 179.84(C19), 15.73(C20); 104.73(C1'); 84.42(C2'), 77.91(C3'), 71.50(C4'), 78.26(C5'), 62.54(C6'); 97.61(C1''), 76.92(C2''), 77.78(C3''), 71.03(C4''), 77.55(C5''), 62.15(C6''); ^1H NMR(400 MHz, Pyr) δ 5.78(s, 1H-C17), 5.31(d, $J = 7.7$ Hz, 1H-C1''), 5.18(d, $J = 7.6$ Hz, 1H-C1'), 5.12(s, 1H-C17), 4.59-3.65(m, 12H-Sophorosyl H), 2.59(d, $J=11.2$ Hz, 1H-C14), 2.48(d, $J = 12.9$ Hz, 1H-C3), 2.37-1.36(m, 14H-Aglycon H), 1.34(s, 3H-C18), 1.23(s, 3H-C20), 1.16-1.07(m, 1H-C3), 1.04(d, $J = 12.6$ Hz, 1H-C5), 0.98-0.91(m, 1H-C9), 0.81(td, $J=13.9$, 4.0 Hz, 1H-C1).