Supplementary

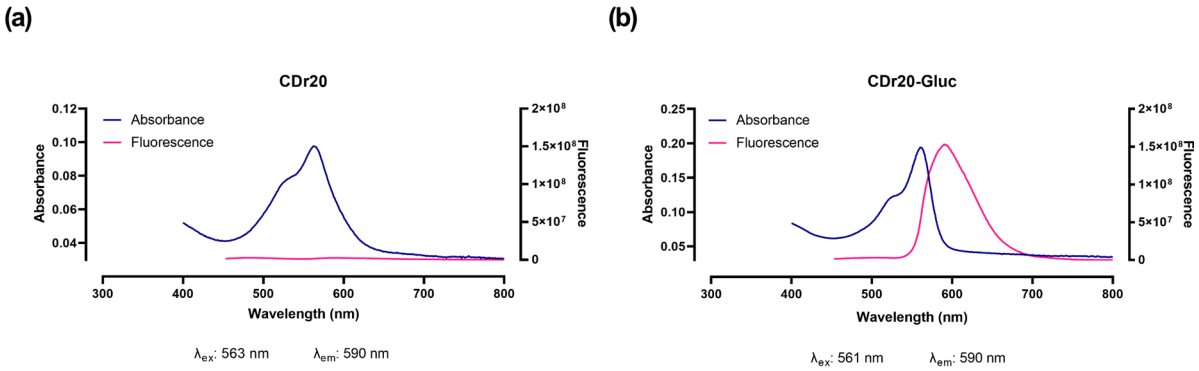

Figure S1. The spectra of CDr20 and CDr20-Gluc. (**a**) The absorbance and fluorescent spectra for CDr20, which shows maximum absorbance at 563 nm wavelength, but no fluorescence peak (100 μM in Tris buffer, pH 7.5). (**b**) The absorbance and fluorescent spectra for CDr20-Gluc ($\lambda_{abs,\,max}$ / $\lambda_{emi,\,max}$ = 561 / 590 nm; 100 μM in Tris buffer, pH 7.5).

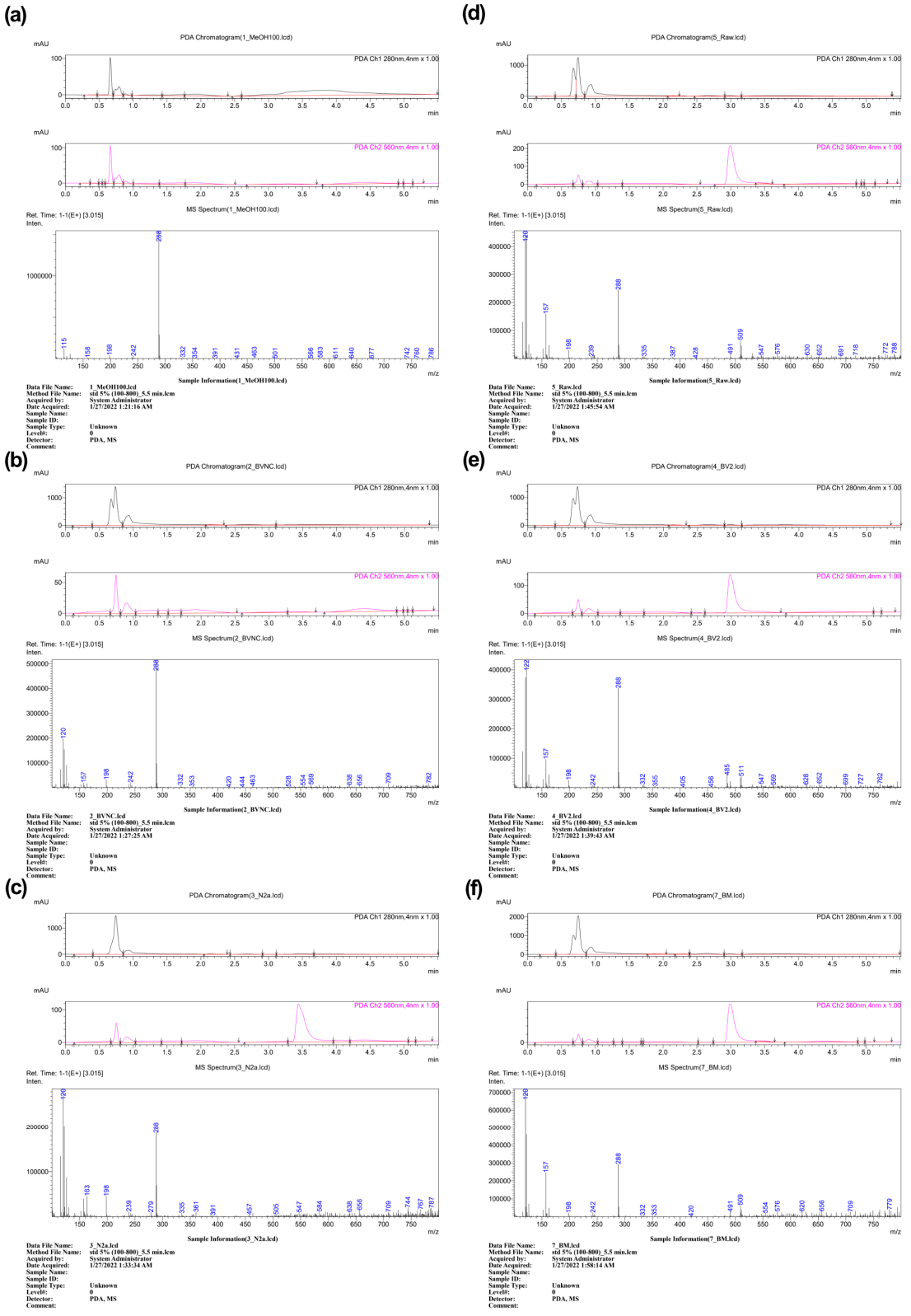

Figure S2. LC-MS characterization of a CDr20-Gluc resulted from the intracellular reaction of CDr20 with Ugt1a7c. (**a**) – (**f**) full traces of PDA chromatographs and mass spectra 100% Methanol (**a**), BV2 non-stained control (b), CDr20 stained N2a (c), CDr20 stained BV2 (**d**), CDr20 stained Raw264.7 (**e**) and CDr20 stained mouse bone marrow (**f**), respectively.

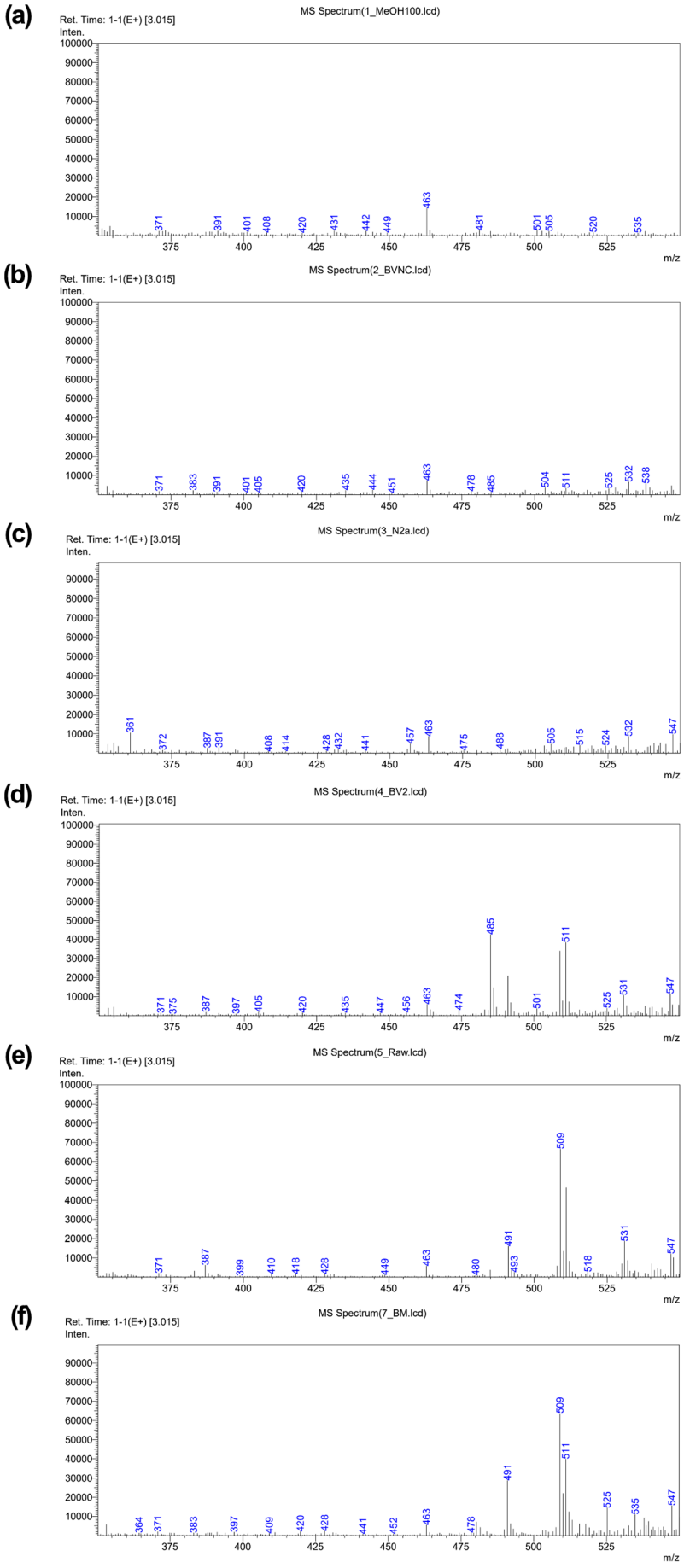

Figure S3. Scaled-up mass spectra of CDr20-Gluc from 350 to 550 m/z (**a**) – (**f**) scaled-up mass spectra from 350 m/z to 550 m/z of 100% Methanol (**a**), BV2 non-stained control (**b**), CDr20 stained

N2a (**c**), CDr20 stained BV2 (**d**), CDr20 stained Raw264.7 (**e**) and CDr20 stained mouse bone marrow (**f**), respectively.