

Supplementary Materials: Shiga Toxin Glycosphingolipid Receptors in Human Caco-2 and HCT-8 Colon Epithelial Cell Lines

Ivan U. Kouzel, Gottfried Pohlentz, Julia S. Schmitz, Daniel Steil, Hans-Ulrich Humpf, Helge Karch and Johannes Müthing

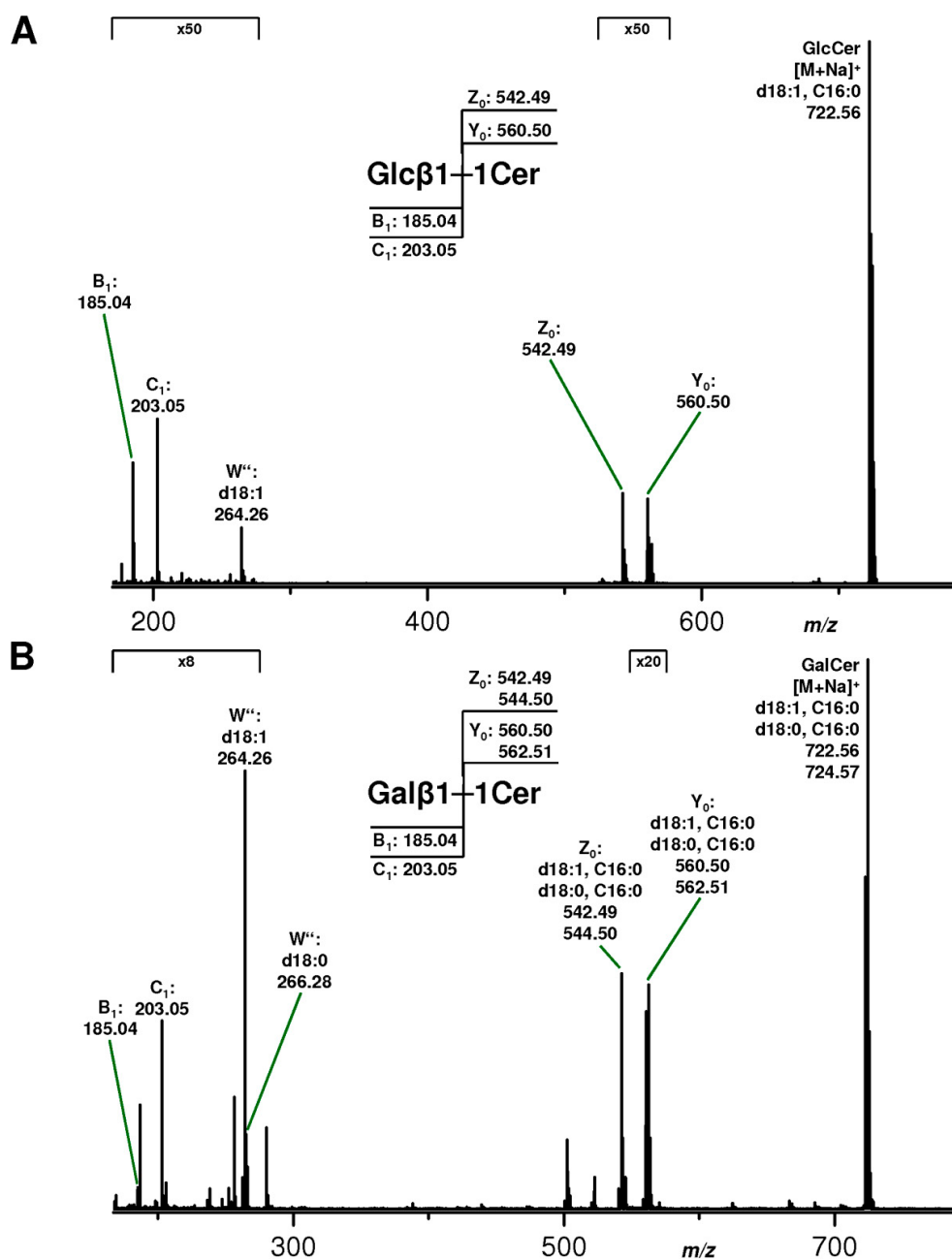


Figure S1. MS² spectra and corresponding fragmentation schemes of GlcCer (d18:1, C16:0) (A) and GalCer (d18:1/d18:0, C16:0) (B) obtained from Caco-2 cells. Non-labeled fragment ion signals derive from coionized impurities.

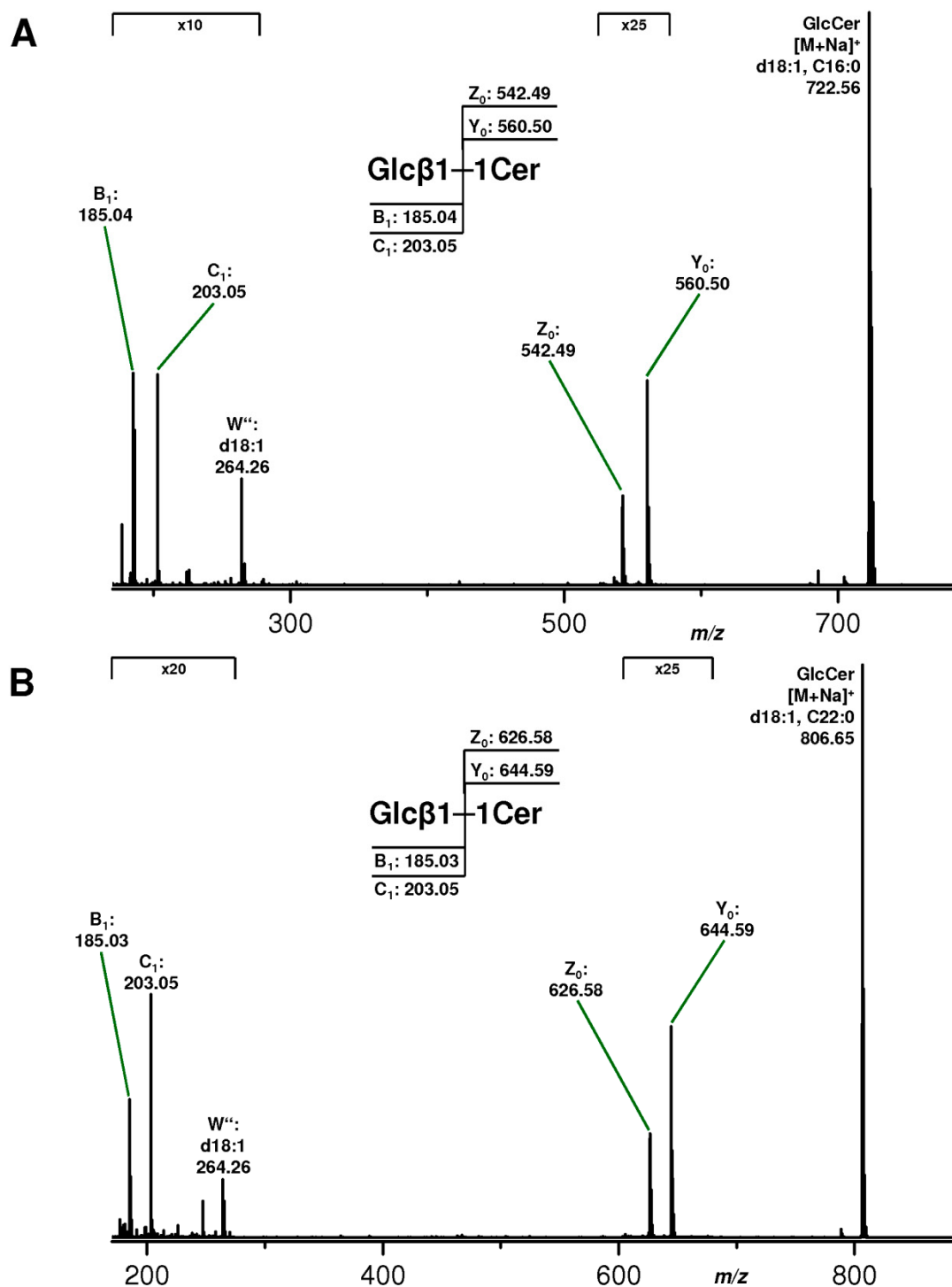


Figure S2. MS² spectra and corresponding fragmentation schemes of GlcCer (d18:1, C16:0) (A) and GlcCer (d18:1, C22:0) (B) obtained from HCT-8 cells. Non-labeled fragment ion signals derive from coionized impurities.

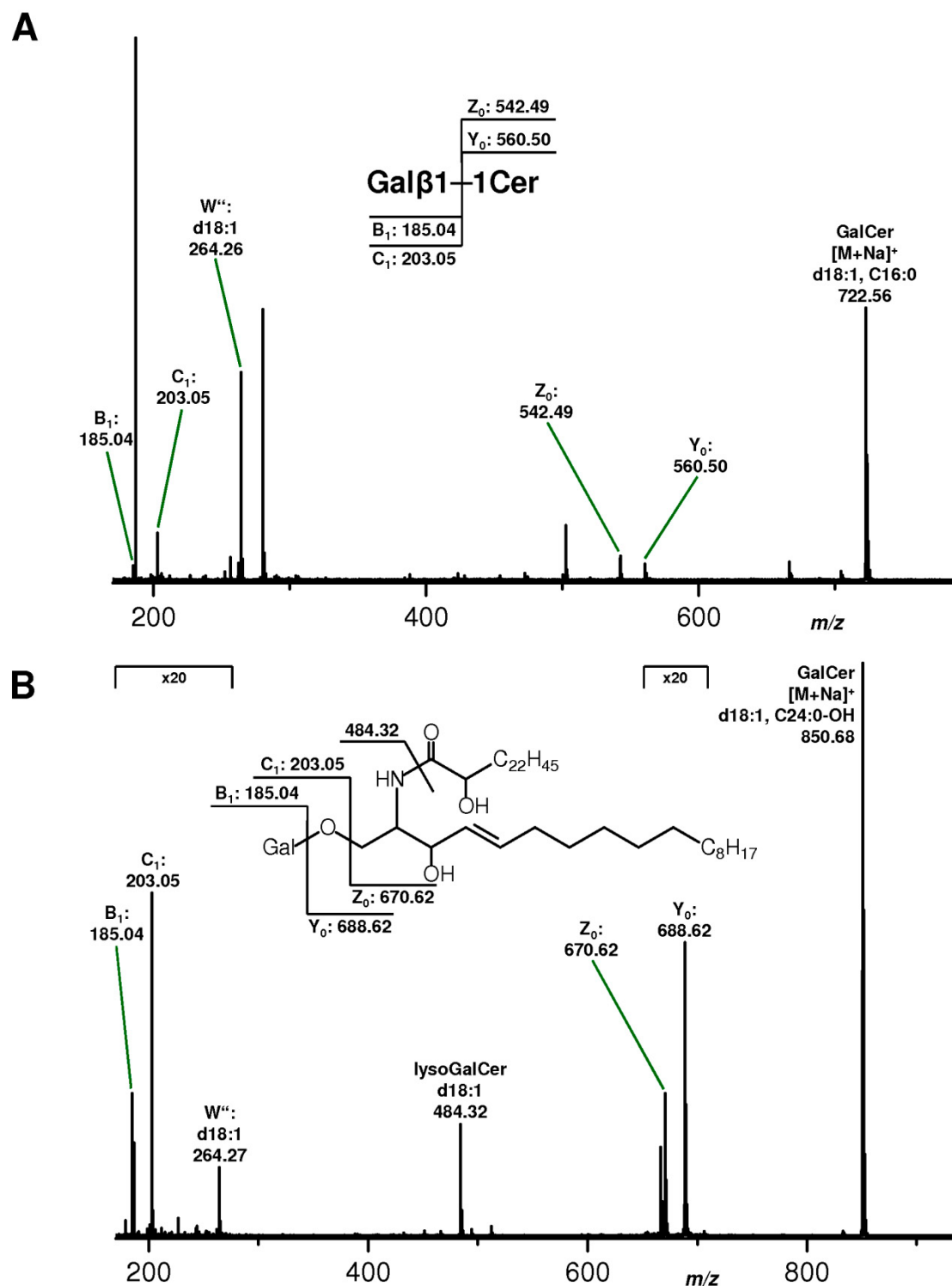


Figure S3. MS² spectra and corresponding fragmentation schemes of GalCer (d18:1, C16:0) (A) and hydroxylated GalCer (d18:1, C24:0-OH) (B) obtained from HCT-8 cells. Non-labeled fragment ion signals derive from coionized impurities.

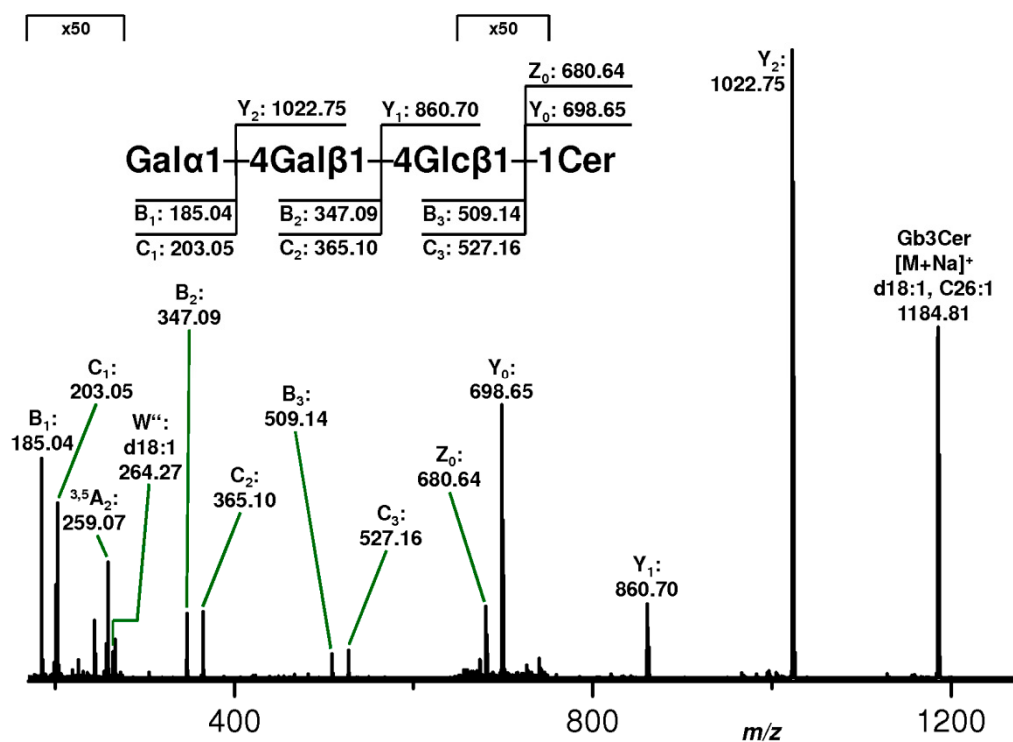


Figure S4. MS² spectrum and corresponding fragmentation scheme of Gb3Cer (d18:1, C26:1) detected in the Stx2a-binding GSL fraction of Caco-2 cells (see Figure 7A, compound 3). Non-labeled fragment ion signals derive from coionized impurities.

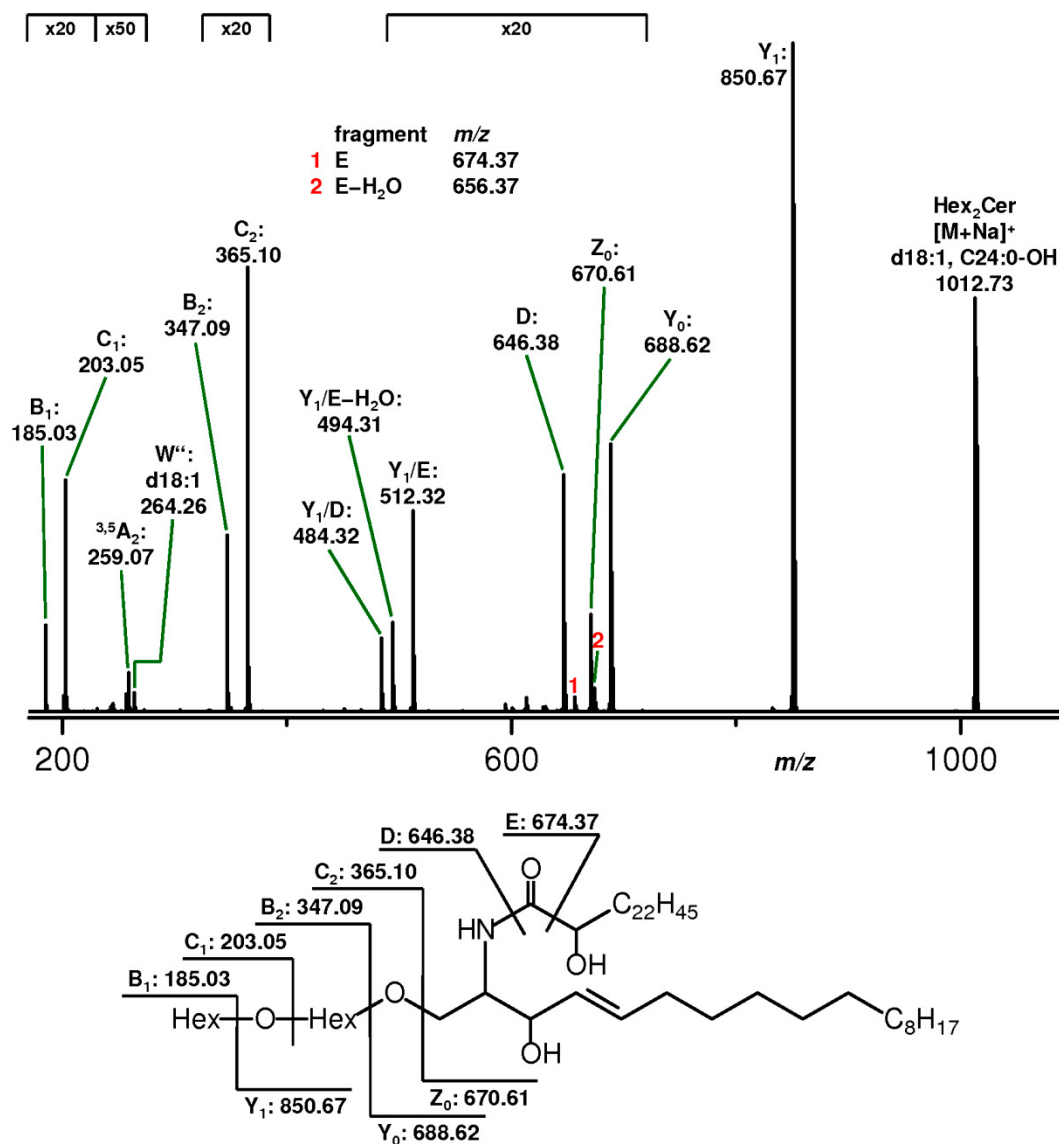


Figure S5. MS² spectrum and corresponding fragmentation scheme of Hex₂Cer (d18:1, C24:0-OH) detected in the Stx2a-binding GSL fraction of HCT-8 cells (see Figure 7B, panel a). Non-labeled fragment ion signals derive from coionized impurities.

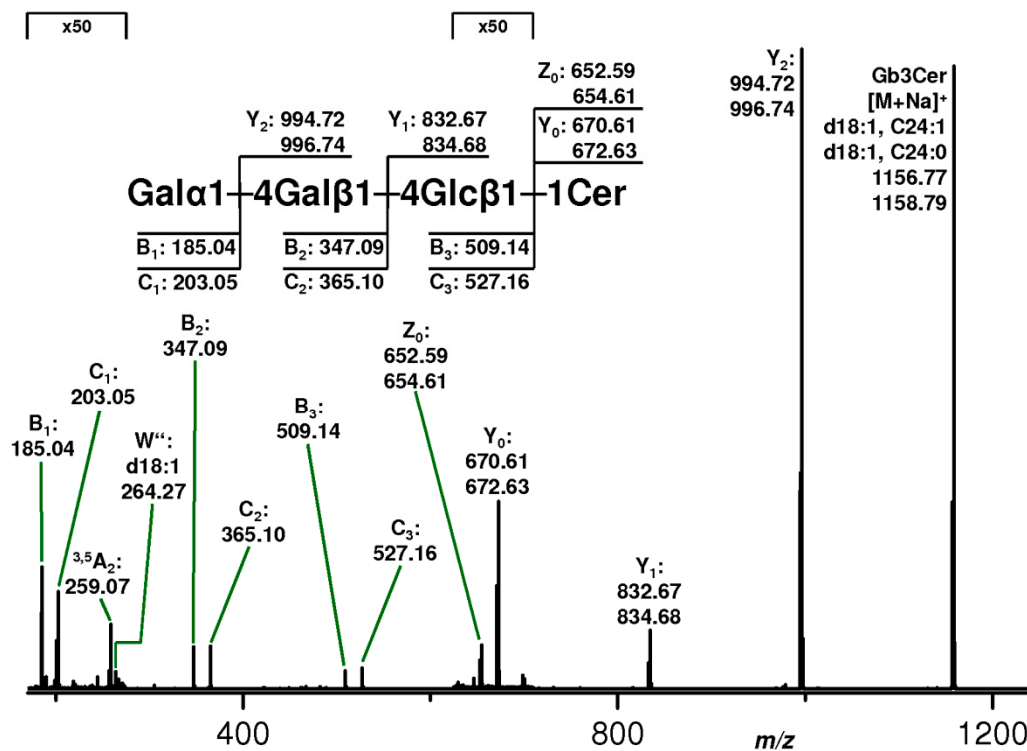


Figure S6. MS² spectrum and corresponding fragmentation scheme of Gb3Cer (d18:1, C24:1/C24:0) detected in the Stx2a-binding GSL fraction of HCT-8 cells (see Figure 7B, panel b). Non-labeled fragment ion signals derive from coionized impurities.

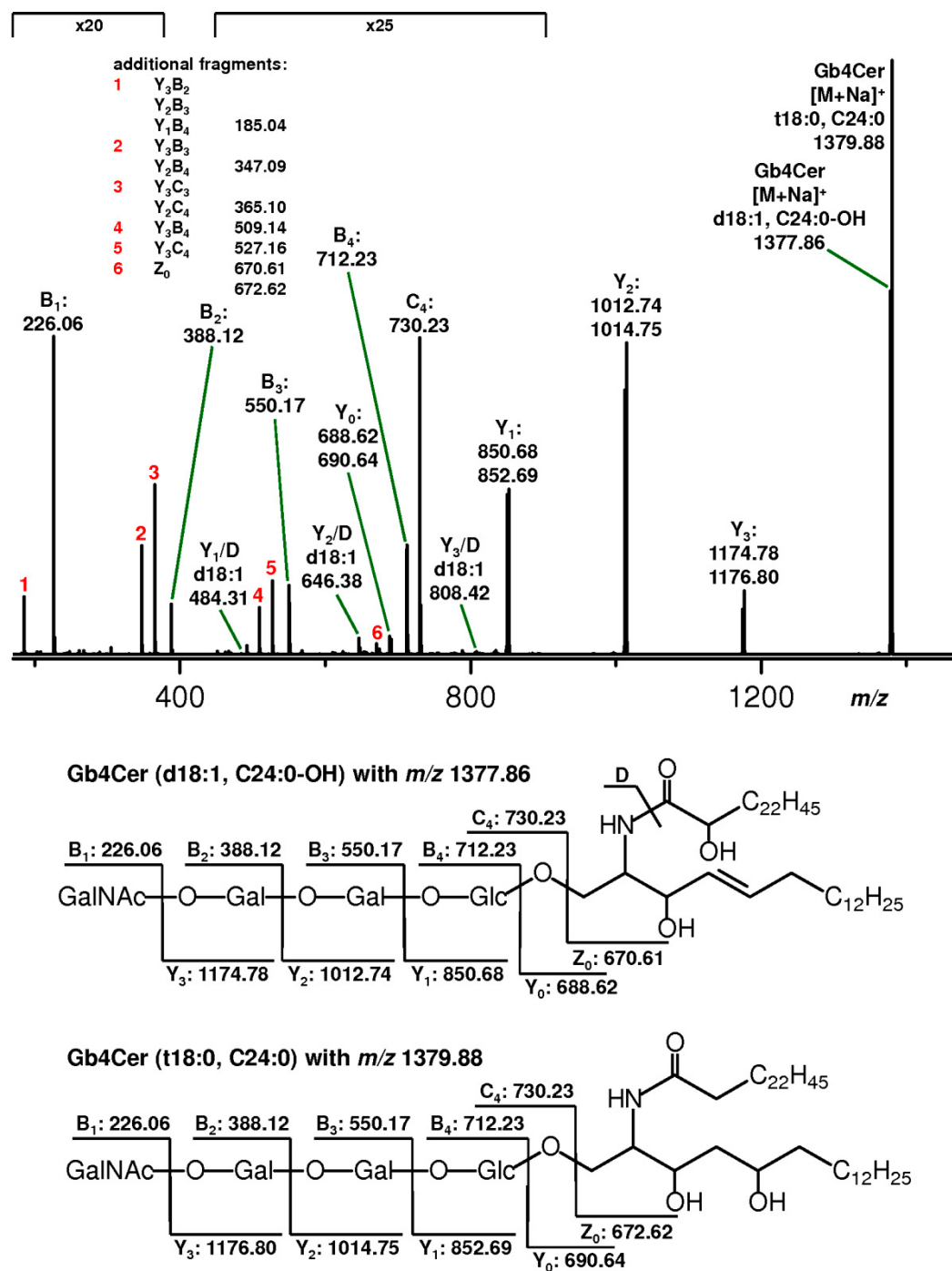


Figure S7. MS² spectrum and corresponding fragmentation schemes of Gb4Cer (d18:1, C24:0-OH)/Gb4Cer (t18:0, C24:0) detected in the Stx2a-binding GSL fraction of HCT-8 cells (see Figure 7B, panel c). Non-labeled fragment ion signals derive from coionized impurities.