

Supporting Information (SI)

for

A Bifunctional Chemical Reporter for *In Situ* Analysis of Cell Envelope Glycan Recycling in Mycobacteria

Amol Arunrao Pohane,^{a,†} Devin J. Moore,^{b,†} Irene Lepori,^a Rebecca A. Gordon,^d Temitope O. Nathan,^b Dana M. Gepford,^b Herbert W. Kavunja,^b Benjamin M. Swarts,^{*,b,c} and M. Sloan Siegrist^{*,a,d}

^aDepartment of Microbiology, University of Massachusetts, Amherst, MA, 01003 USA

^bDepartment of Chemistry and Biochemistry, Central Michigan University, Mount Pleasant, MI, 48859 USA

^cBiochemistry, Cell, and Molecular Biology Program, Central Michigan University, Mount Pleasant, MI, 48859 United States

^dMolecular and Cellular Biology Graduate Program, University of Massachusetts, Amherst, MA, 01003 USA

[†]These authors contributed equally to this work.

*Corresponding authors: siegrist@umass.edu; ben.swarts@cmich.edu

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I. Supplementary Figures

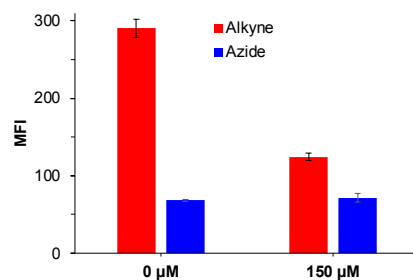


Figure S1. Inhibition of antigen 85 by the cysteine-reactive compound ebselen decreases alkyne signal from O-AzAlkTMM (**3**). Wild-type *M. smegmatis* was pre-incubated with +/-150 μM ebselen for 10 minutes and labeled as in Fig. 2. MFI, median fluorescence intensity.

O-AzAlkTMM

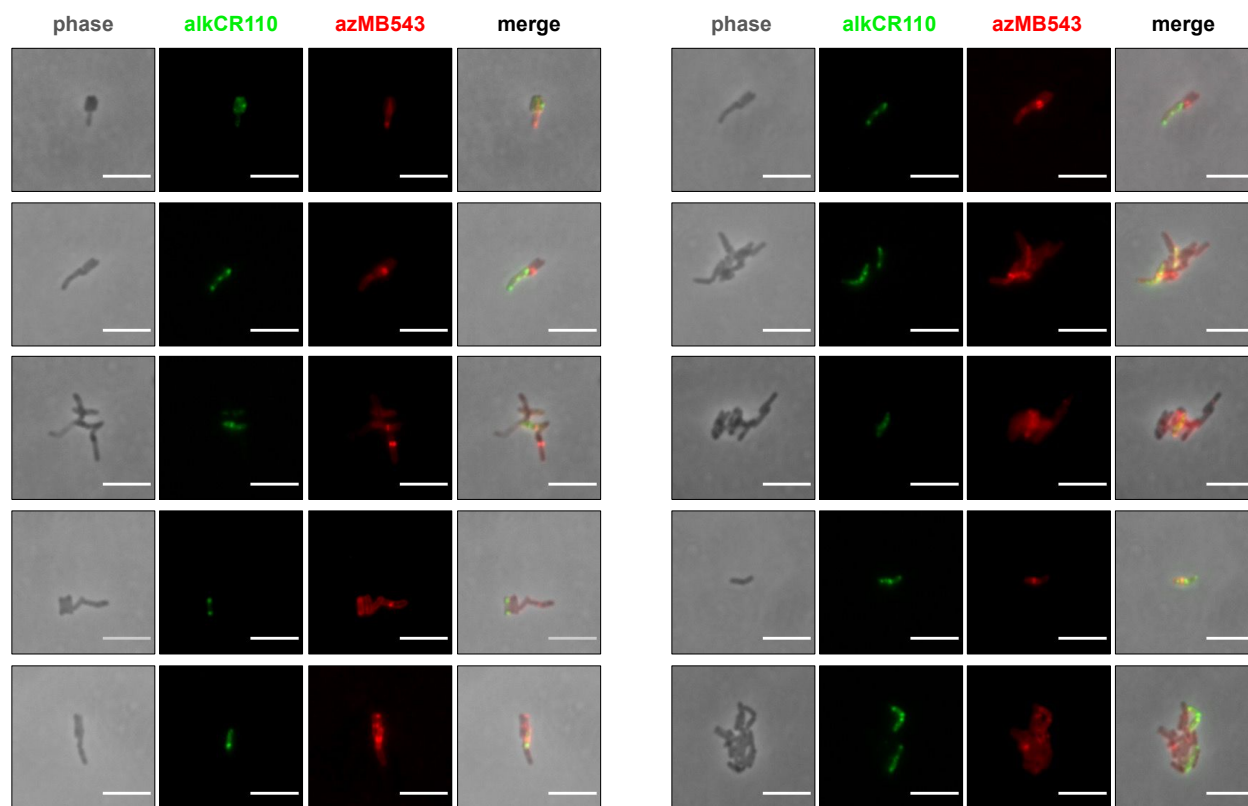
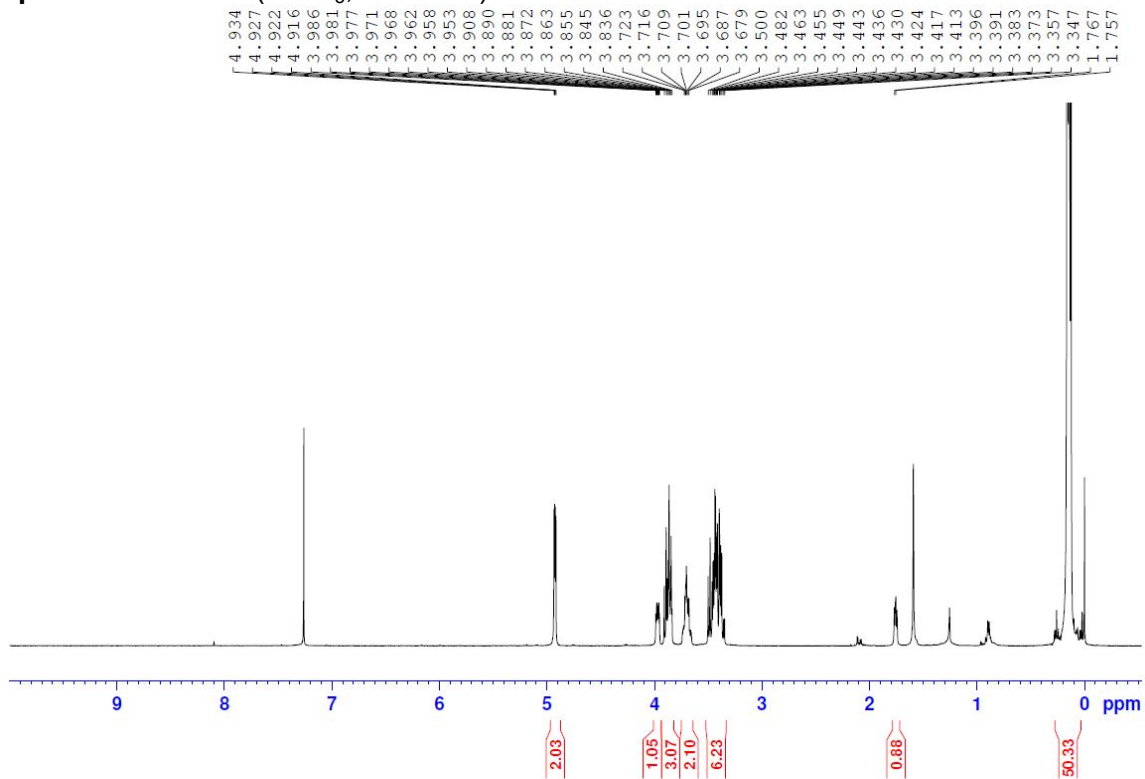


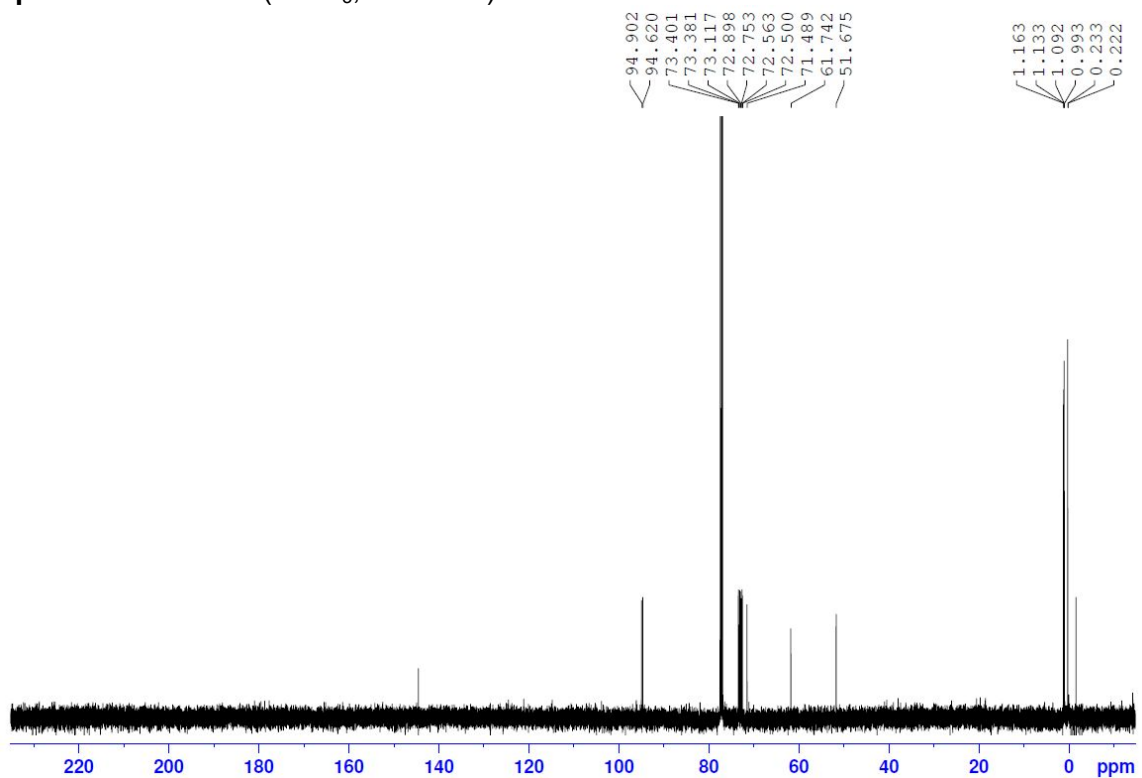
Figure S2. Additional images of $\Delta leuD \Delta panCD$ *M. tuberculosis* labeled with O-AzAlkTMM and successive rounds of CuAAC as in Figure 3B. Scale bars, 5 μ M.

II. NMR Spectra

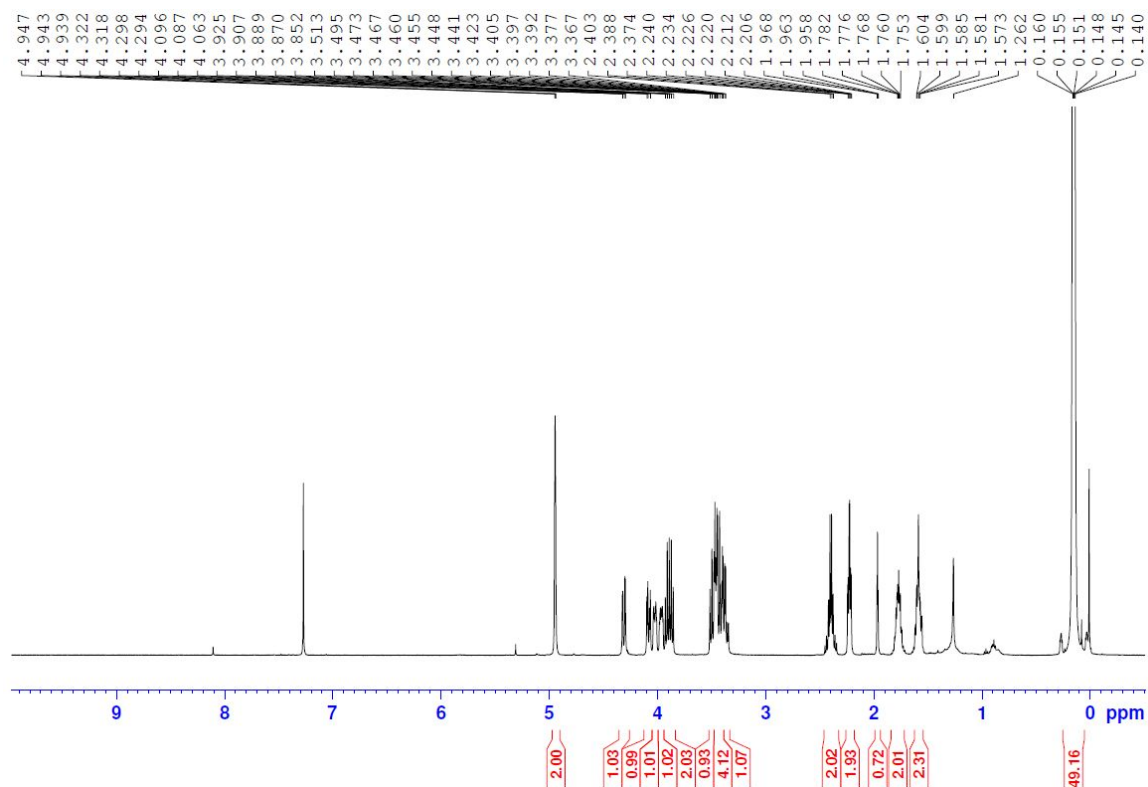
Compound 4 ^1H NMR (CDCl_3 , 500 MHz)



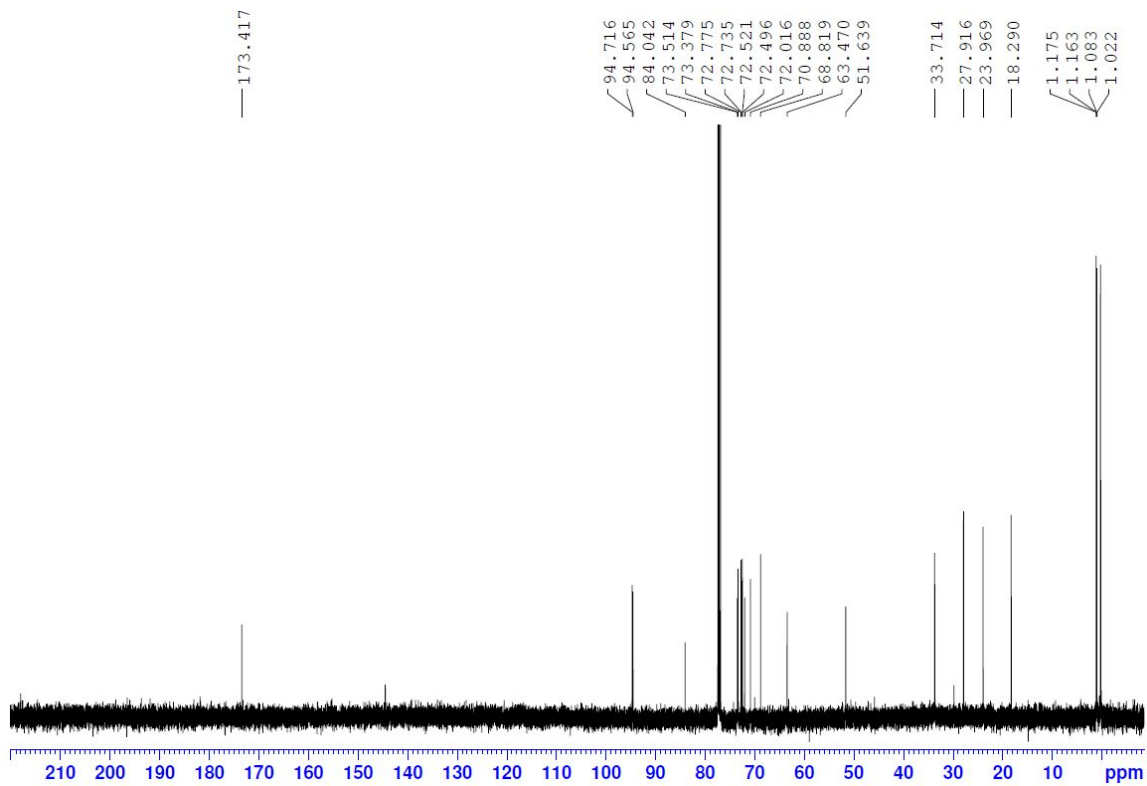
Compound 4 ^{13}C NMR (CDCl_3 , 125 MHz)



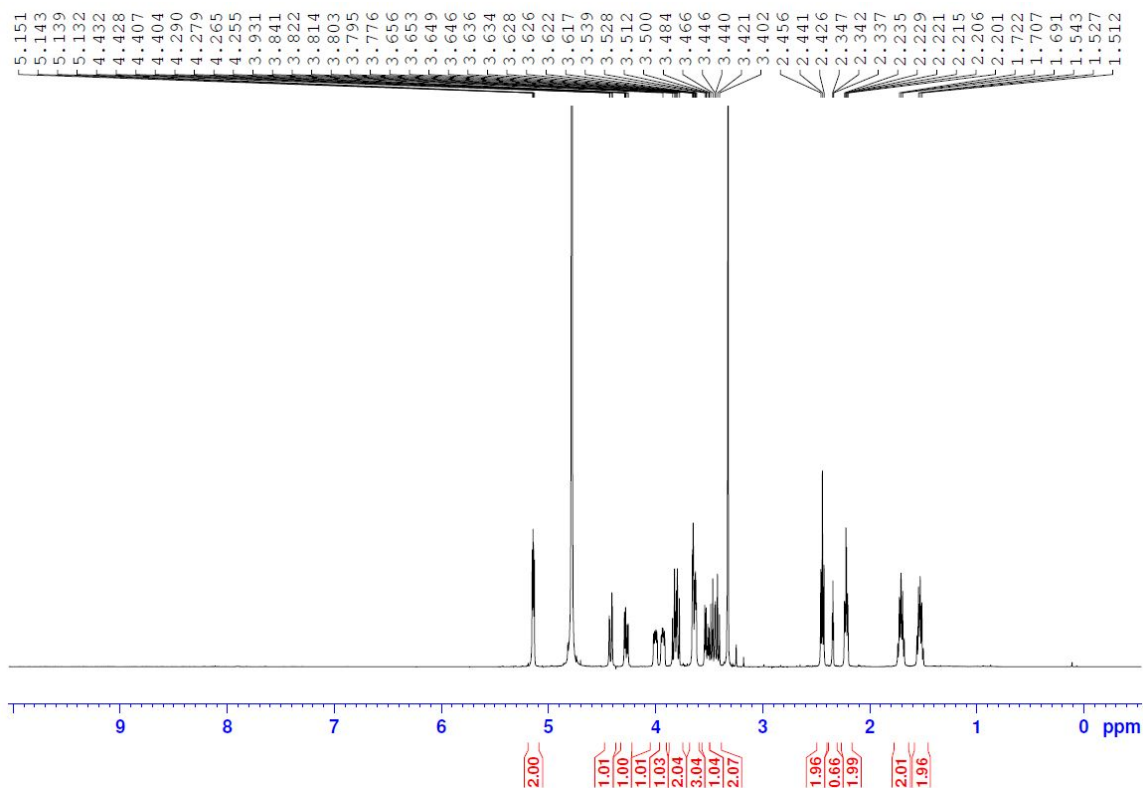
Compound 5 ¹H NMR (CDCl₃, 500 MHz)



Compound 5 ¹³C NMR (CDCl₃, 125 MHz)



O-AzAlkTMM (3) ¹H NMR (D₂O, 500 MHz)



O-AzAlkTMM (3) ¹³C NMR (D₂O, 125 MHz)

