



STRUCTURAL BIOLOGY
COMMUNICATIONS

Volume 79 (2023)

Supporting information for article:

Crystal structure of CmnB involved in the biosynthesis of the nonproteinogenic amino acid L-2,3-diaminopropionic acid

Shu-Ing Toh, Chieh-Ling Lo and Chin-Yuan Chang

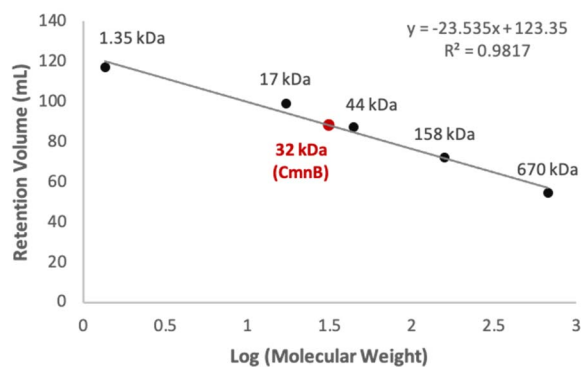


Figure S1 Molecular weight estimation of CmnB under an acidic condition. Size-exclusion analysis was performed under an acidic condition (100 mM citrate, 200 mM Na₂HPO₄, pH5.5). The calculated molecular weight of CmnB is ~38 kDa. The apparent molecule weight of Cph001 is estimated to be 32 kDa, suggesting that CmnB is monomer in solution.

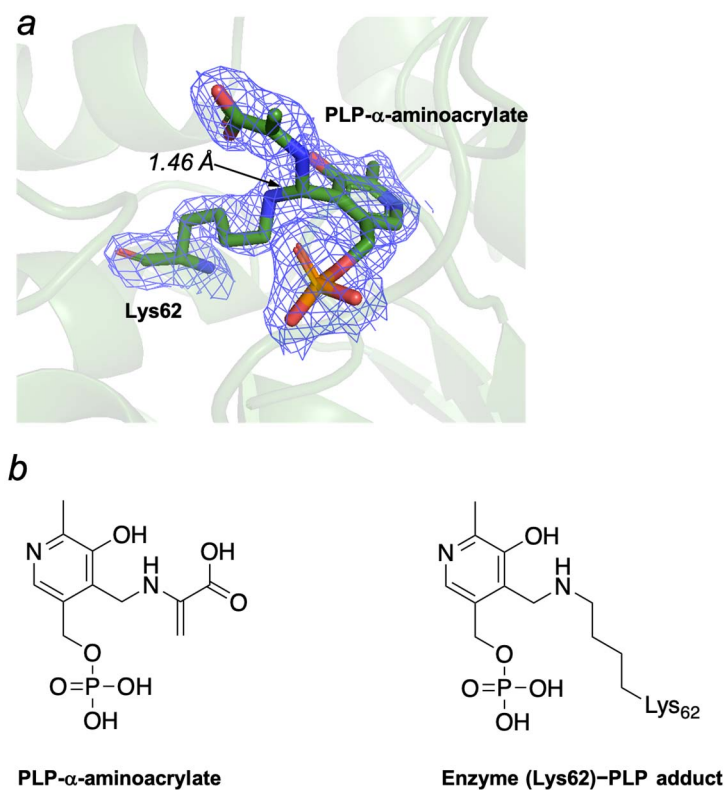


Figure S2 The electron density maps of the mixed form of PLP- α -aminoacrylate and the Lys62-PLP adduct. (a) The composite ($2mF_o - DF_c$) omit maps of the mixed form of PLP- α -aminoacrylate and the Lys62-PLP adduct. The electron density maps colored blue were contoured at 1.0σ . (b) Chemical structures of the two forms, PLP- α -aminoacrylate and the Lys62-PLP adduct. The occupancy for PLP- α -aminoacrylate and the Lys62-PLP adduct are 0.59 and 0.41, respectively.