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**Supporting information for article:**

# Crystal structure of maize serine racemase with pyridoxal 5'-phosphate

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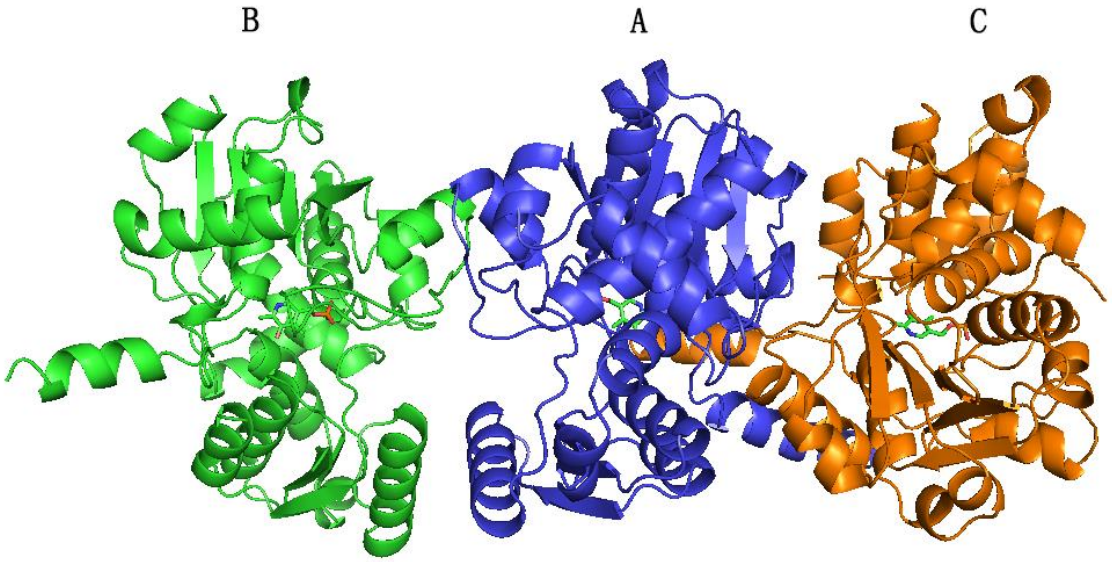


**Figure S1** Three ZmSR molecules in one asymmetric unit. The ZmSR molecules are named A, B and C.

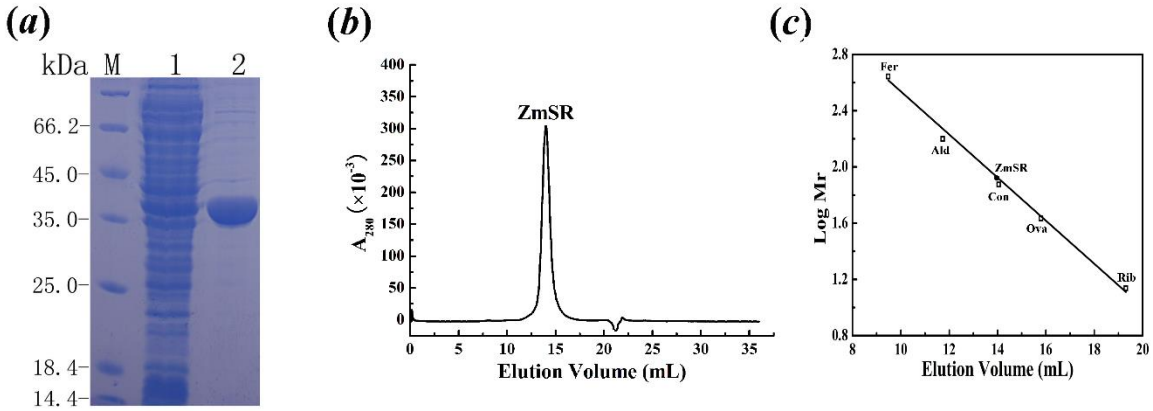


**Figure S2** (a) SDS-PAGE analysis of purified ZmSR. Lane M, Protein marker; lane 1, crude extracts of the expressed ZmSR; lane 2, the purified protein. (b) Gel-filtration chromatography of recombinant ZmSR. The ZmSR purified by Ni-NTA resin was dialyzed, concentrated and loaded onto a Superdex HR200 gel filtration column. Protein detection was performed at 280 nm. (c) Molecular mass of the holo-ZmSR. The standard proteins are horse ferritin (Fer, 440 kDa), yeast aldolase (Adl, 158 kDa), bovine conalbumin (Con, 75 kDa), chicken ovalbumin (Ova, 43 kDa), and bovine ribonuclease (Rib, 14 kDa).

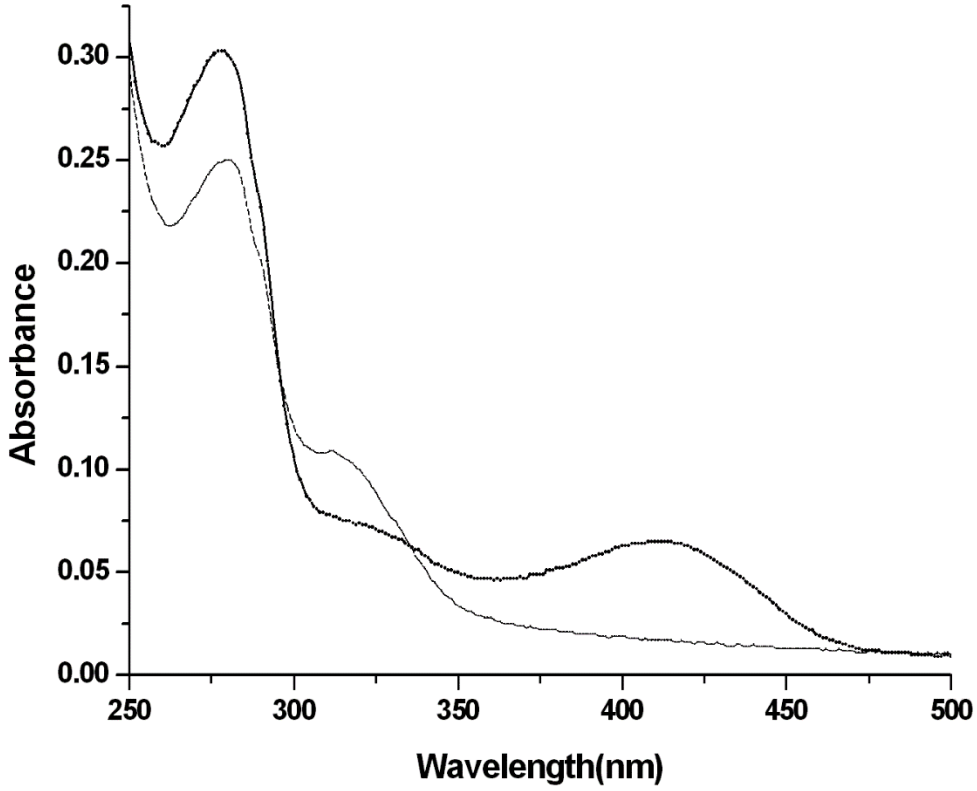


**Figure S3** Absorption spectra of ZmSR before and after sodium borohydride incubation. The spectra of purified protein treated with or without sodium borohydride were shown as solid or dashed line. The treatment was described in Materials and Methods.