

Figure S1. Purification of *E. indica* mutant (EiGS1-1-R59) and wildtype (EiGS1-1-WT) proteins from yeast cells. M refers to protein size markers (from the top to the bottom: 116, 66, 45, 35, 25, 18.4 and 14.4 kDa)

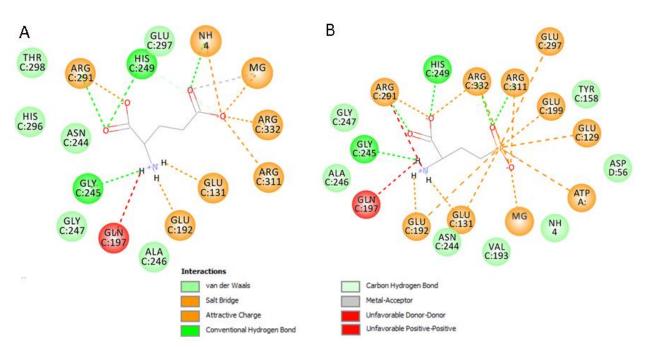


Figure S2. Diagram of molecular interactions of glutamate (A) and glufosinate (B) at the binding site on the surface of *E. indica* GS1-1 WT isoform. Some interactions were hidden. Residues of different GS1 subunits were labeled by letters C and D.

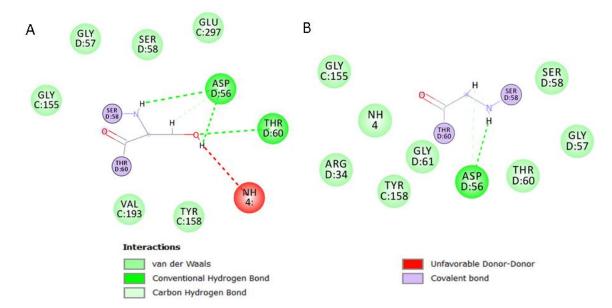


Figure S3. Diagram showing molecular interactions of Ser-59 on the surface of *E. indica* GS1-1 WT (A) and mutant (B) isoforms. Residues in position 59 were shown by sticks. Residues of different GS1 subunits were labeled by letters C and D.