

Review of: "Determining kinetics parameters of bovine serum albumin-protected gold nanozymes toward different substrates"

Fatma Ayhan¹

¹ Mugla Sıtkı Kocman University

Potential competing interests: No potential competing interests to declare.

In the manuscript, the kinetics performances of BSA-gold nanozymes were calculated toward oxidations of both 3,3',5,5'-tetramethylbenzidine (TMB) and 3,3'-diaminobenzidine (DAB). Nanozyme was synthesized according to a protocol and kinetic measurement were performed for different TMB and DAB concentrations. TEM images and Michaelis-Menten measurement results were given and Lineweaver-Burg plot of oxidation results were analyzed to obtain Michaelis-Menten constants, V_m and K_m values.

The manuscript needs to be corrected for the following remarks indicated below.

- Experimental section needs to be supported by related literatures.
- The function of BSA in the formation of gold nanoparticles was not elaborated and its presence was not analyzed and/or related literature was not written.
- If the estimated activity values were discussed comparatively with the activity of biological enzyme macromolecules, the manuscript will be more attractive for further studies in the field.