



Professor Markus W. Ribbe

University of California, Irvine

Reduction and Condensation of CO, CO, and Aldehydes by the Isolated Cofactor of Nitrogenase

Isolated nitrogenase cofactors can reduce CO, CO2 to short-chain hydrocarbons in reactions driven by a strong reductant. Here, we use activity analyses and isotope labeling experiments to show that formaldehyde and acetaldehydes can be reduced as-is or reductively condensed into alkanes and alkenes by the isolated cofactor of Mo-nitrogenase in the presence of Eu^{II}-DTPA.

September 10 at 03:00 pm

Instituto Superior Técnico, Campus Alameda, Room QA1.3 (Torre Sul)



