

## **Supporting Information**

### **Novel Bovine Carbonic Anhydrase Encapsulated in Metal Organic Frameworks: A New Platform for Biomimetic Sequestration of CO<sub>2</sub>**

Vahideh Asadi<sup>a</sup>, Reihaneh Kardanpour<sup>a</sup>, Shahram Tangestaninejad<sup>a,\*</sup>, Majid Moghadam<sup>a,\*</sup>, Valiollah Mirkhani<sup>a,\*</sup>, Iraj Mohammadpoor-Baltork<sup>a</sup>

<sup>1</sup> *Department of Chemistry, Catalysis Division, University of Isfahan, Isfahan 81746-73441, Iran*

#### **Table of Contents**

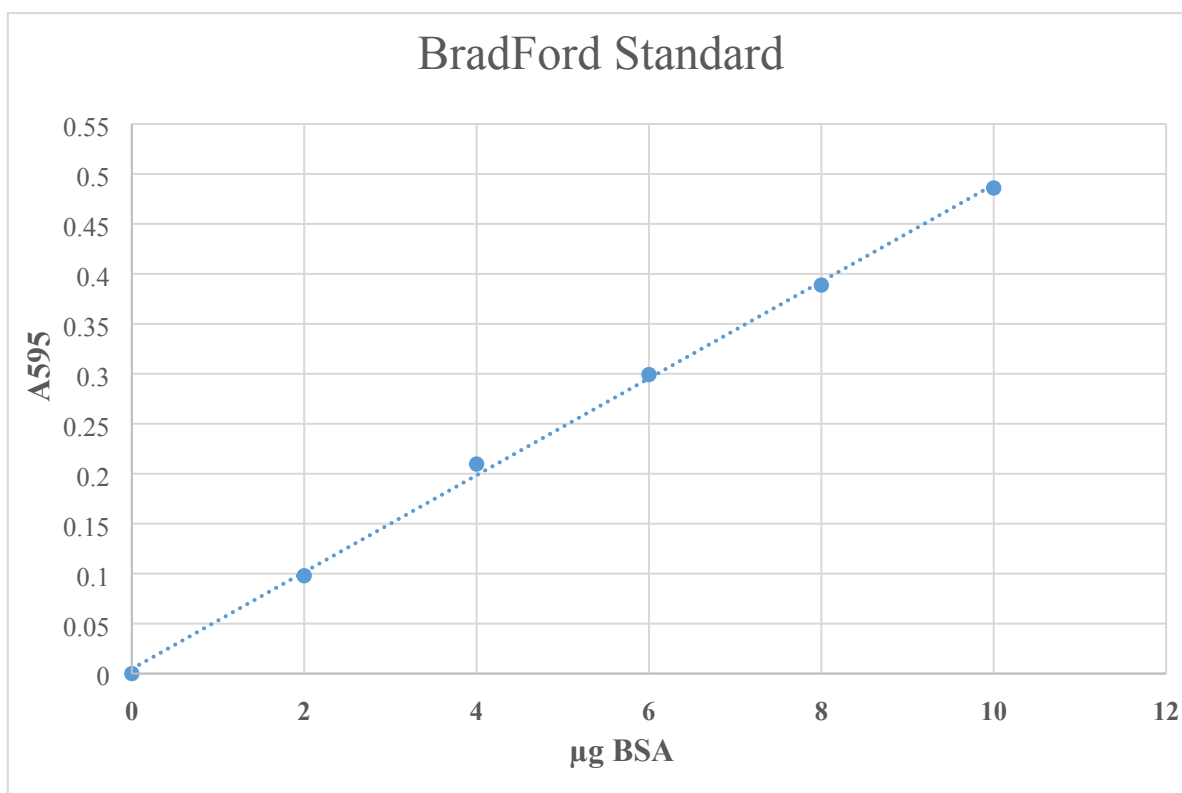
**Fig S1.** Bradford assay of the protein concentration

**Fig S2.** Energy dispersive X-ray spectrum of BCA-ZIF-8

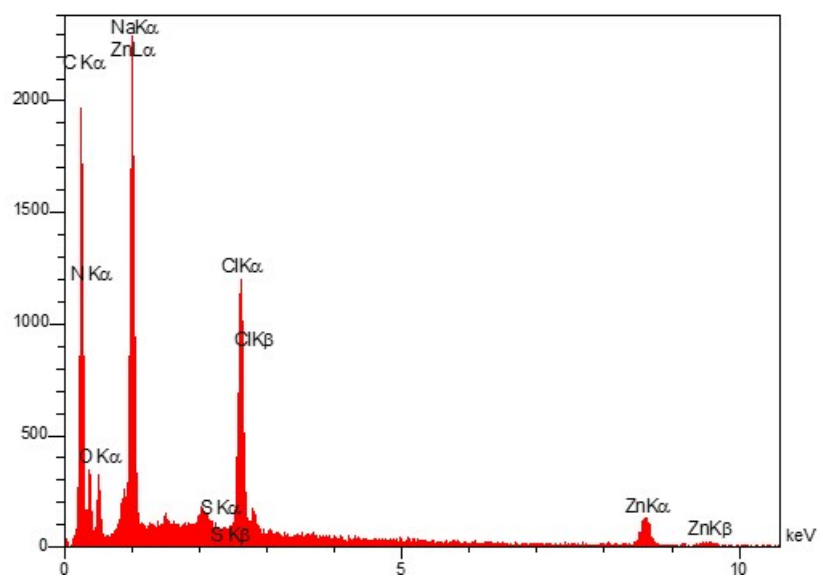
**Fig S3.** Activity detection by hydrolysis of p-NPA

---

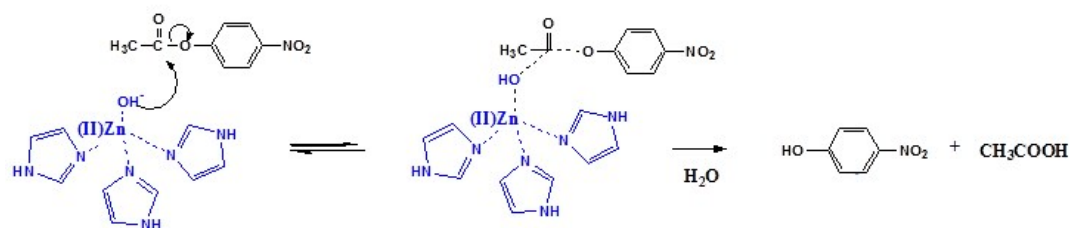
\*Corresponding authors: Tel: +98-31-37934920; fax: +98-31-36689732; E-mails: [stanges@sci.ui.ac.ir](mailto:stanges@sci.ui.ac.ir) (S. Tangestaninejad); [moghadamm@sci.ui.ac.ir](mailto:moghadamm@sci.ui.ac.ir) (M. Moghadam); [mirkhani@sci.ui.ac.ir](mailto:mirkhani@sci.ui.ac.ir) (V. Mirkhani).



**Fig S1.** Bradford assay of the protein concentration



**Fig S2.** Energy dispersive X-ray spectrum BCA-ZIF-8



**Fig S3.** Activity detection by hydrolysis of p-NPA