

Arginine Deiminase (ADI), *Pseudomonas Aeruginosa* Recombinant

CATALOG NO:	P1411-20 P1411-100	20 µg 100 µg
SOURCE:	<i>E.coli</i>	
PURITY:	>95% by SDS-PAGE	
GENE SEQ.	<i>Pseudomonas aeruginosa</i> (aa 1-418)	
MOL. WEIGHT:	46.3 kDa with N-terminal 6X-His tag	
FORM:	Liquid	
FORMULATION:	10% Glycerol with 50 mM Tris pH 8	
STORAGE CONDITIONS:	Enzyme should be aliquoted and stored at -20°C. Avoid repeated freeze-thaw cycles.	
DESCRIPTION:	Arginine deiminase (ADI) is a potential anti-tumor biologics for the treatment of arginine-auxotrophic tumors, such as hepatocellular carcinomas and melanomas. ADI hydrolyzes arginine to citrulline and ammonia.	
SPECIFIC ACTIVITY:	This enzyme has a specific activity of ≥ 100 mU/mg based on its conversion of arginine to citrulline, which can be detected fluorometrically at Ex/Em=535/595 using BioVision's Methionine Assay Kit (Cat. No. K442).	
UNIT DEFINITION:	One unit is defined as the amount of enzyme that will hydrolyze 1.0 µmole of arginine to citrulline per minute at pH 7.4 and 25°C.	

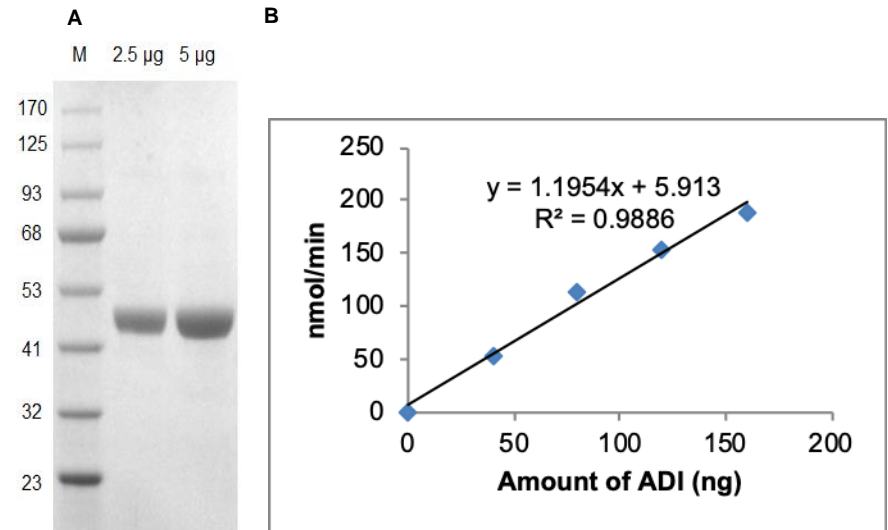


Fig A. SDS-PAGE (4-20%) recombinant ADI: Recombinant protein loaded under reducing conditions and stained with Coomassie Blue. Lane M-MW marker

Fig B. ADI activity assay: The specific activity of ADI is 100 mU/mg based on its ability to convert arginine to citrulline (**BV Cat. No. K442**)

RELATED PRODUCTS:

- L-Arginine Assay Kit (Colorimetric) (**Cat. No. K749**)
- Arginine Assay Kit (Fluorometric) (**Cat. No. K384**)
- Mycoplasma Arginine Deiminase (ADI), Recombinant Protein (**Cat. No. P1278**)
- Methionine Assay Kit (Fluorometric) (**Cat. No. K442**)

FOR RESEARCH USE ONLY! Not to be used on humans.