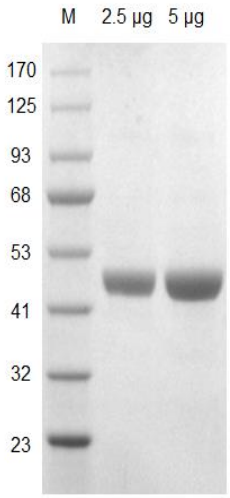
Arginine Deiminase (ADI), *Pseudomonas Aeruginosa* Recombinant

CATALOG NO:	P1411-20 20 µg P1411-100 100 µg
SOURCE:	*E.coli*
PURITY:	>95% by SDS-PAGE
GENE SEQ.	Pseudomonas aeruginosa (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℃.

A



B

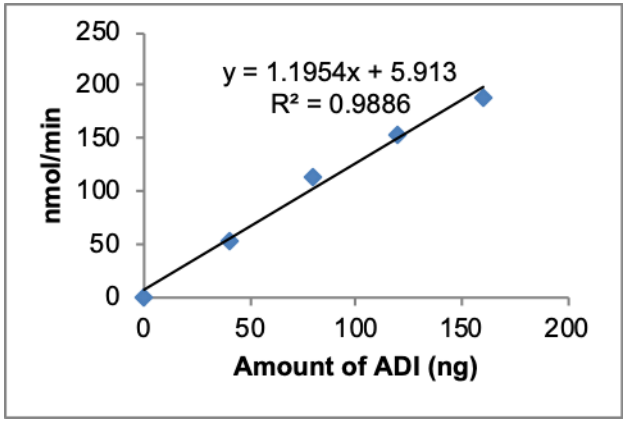


Fig A. SDS-PAGE (4-20%) recombinant ADI: Recombinant protein loaded under reducing conditions and stained with Coomassie Blue. Lane M-MW marker

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.