

## ADI Protein, *Metamycoplasma hominis* (HEK293, His)

Cat. No.:	HY-P700625
Synonyms:	Arginine deiminase; Arginine dihydrolase (AD); arcA
Species:	Others
Source:	HEK293
Accession:	P41141 (S2-W409)
Gene ID:	/
Molecular Weight:	50kDa

### PROPERTIES

#### AA Sequence

SVFDSKFNGL	HVYSEIGELE	TVLVHEPGRE	IDYITPARLD
ELLFSAILES	HDARKEHQSF	VKIMKDRGIN	VVELTDLVAE
TYDLASKAAK	EEFIETFLEE	TVPVLTEANK	KAVRAFLLSK
PTHEMVEFMM	SGITKYELGV	ESENELIVDP	MPNLYFTRDP
FASVGNNGVTI	HFMRYIVRRR	ETLFARFVFR	NHPKLVKTPW
YYDPAMKMPI	EGGDVFIYNN	ETLVVGVSER	TDLDTITLLA
KNIKANKEVE	FKRIVAINVP	KWTNLMHLDT	WLTMLDKNKF
LYSPIANDVF	KFDYDLDVNG	GAEPQPQLNG	LPLDKLLASI
INKEPVLIP	GGAGATEMEI	ARETNFDGTN	YLAIKPGLVI
GYDRNEKTNA	ALKAAGITVL	PFHGNQLSLG	MGNARCMSP
LSRKDVKW			

**Biological Activity** The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

**Appearance** Lyophilized powder

**Formulation** Lyophilized from a 0.2  $\mu$ m filtered solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.

**Endotoxin Level** <1 EU/ $\mu$ g, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/mL in ddH<sub>2</sub>O.

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

ADI, the enzyme central to the L-arginine degradation via ADI pathway, catalyzes the initial step of this amino acid degradation process. Specifically, ADI facilitates the conversion of L-arginine to carbamoyl phosphate in a crucial enzymatic reaction that marks the beginning of the pathway. This step is fundamental to the overall metabolic breakdown of L-arginine, showcasing the key role of ADI in regulating this amino acid degradation pathway.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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