

Recombinant Mycoplasma Arginine Deiminase (ADI) -Purified

Alternate names:	AD, Arginine Dihydrolase, arca
Catalog No.:	AR20030PU-S
Quantity:	5 µg
Background:	Arginine Deiminase (ADI) is a microbial enzyme from Mycoplasma produced in E.coli. It has high affinity to L-arginine and hydrolyzes L-arginine to citrulline and ammonia. Low concentrations of ADI have been shown to inhibit proliferation in certain cultured cells by arresting the cell cycle in G (1) and/or S phase. Higher concentrations of ADI lead to subsequent apoptosis.
Uniprot ID:	P23793
NCBI:	2094
Species:	Mycobacteria
Source:	E. coli
Format:	State: Lyophilized (0.2µ Sterile filtered) purified protein Purity: >98% pure by SDS-PAGE gel and HPLC analyses Buffer System: 2mM Sodium Phosphate, pH 7.5 + 0.2mM DTT Endotoxin Level: < 0.1 ng per µg (1EU/µg). Reconstitution: Restore in water to a concentration of 0.1-1.0 mg/ml. Centrifuge the vial prior to opening. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Description:	Recombinant Mycoplasma Arginine Deiminase is a 46.3 kDa protein consisting of 409 amino acids. AA Sequence: SVFDSKFKGI HVYSEIGELE SVLVHEPGRE IDYITPARLD ELLFSAILES HDARKEHKQF VAELKANDIN VVELIDLVAE TYDLASQEAK DKLIEEFLED SEPLVSEEHK VVVRNFLKAK KTSRELVEIM MAGITKTDLG IEADHELIVD PMPNLYFTRD PFASVGNVGT IHMRYKVRQ RETLFSRFVF SNHPKLINTP WYYDPSLKLS IEGGDVFIYN NDTLVVGVSE RTDLQTVTL LAKNIVANKEC EFKRIVAINV PKWTNLMHLD TWLTMLDKDK FLYSPIANDV FKFDYDLVN GGAEPQPVEN GLPLEGLLQS IINKKPVLP IAGEGASQME IERETHFDGT NYLAIRPGVV IGYSRNEKTN AALEAAGIKV LPFHGNQLSL GMGNARCMSM PLSRKDVKW Biological Activity: Measured by its ability to induce apoptosis in Jurkat cells using a concentration of 100-150 ng/ml. Molecular weight: 46.3 kDa (409 amino acids)

Storage:

Prior to reconstitution store at 2-8°C for 6 months, at RT for one month or at -20°C to -80°C for longer.

Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.