Mycoplasma Arginine Deiminase (ADI), Recombinant Protein

CATALOG NO: P1278-5, 20 5 µg, 20 µg

ALTERNATE NAMES: Arginine deiminase, ADI, Arginine dihydrolase, AD, Mycoplasma Arginine Deiminase

SOURCE: E.coli

PURITY: ≥ 97% by SDS-PAGE gel and HPLC analyses

MOL. WEIGHT: 46.3 kDa

FORM: Lyophilized powder or in aqueous solution

STORAGE CONDITIONS: Store at -20ºC. Avoid repeated freeze-thaw cycles.

BIOLOGICAL ACTIVITY: Measured by its ability to induce apoptosis in Jurkat cells using a concentration of 100-150 ng/ml

RECONSTITUTION: Reconstitute in water to a concentration of 0.1–1.0 mg/ml

DESCRIPTION: 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 G1 and/or S phase. Higher concentrations of ADI lead to subsequent apoptosis. Recombinant Mycoplasma Arginine Deiminase is a 46.3 kDa protein consisting of 409 amino acids.

RELATED PRODUCTS:

- AMI-1 **(Cat. No. 1943)**
- Mycoplasma DNA Kit **(Cat. No. K1416)**
- GSK-484 hydrochloride **(Cat. No. B1035)**

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