

## 32-2118: ADA Recombinant Protein

**Alternative Name :** Adenosine deaminase, Adenosine aminohydrolase, ADA1, EC 3.5.4.4.

### Description

Source : Escherichia Coli. ADA Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 383 amino acids (1-363) and having a molecular mass of 42.9 kDa. The ADA is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. ADA catalyzes the hydrolytic deamination of adenosine and 2-deoxyadenosine. ADA has a vital part in purine metabolism and in adenosine homeostasis. ADA performs as a positive regulator of T-cell coactivation, by binding DPP4 which regulates lymphocyte-epithelial cell adhesion.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 85.0% as determined by SDS-PAGE.
<b>Content :</b>	ADA protein 0.5mg/ml is supplied in 20mM Tris-HCL, pH-8, 1mM DTT and 20% Glycerol.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH MAQTPAFDKP KVELHVHLDG SIKPETILYY GRRRGIALPA NTAEGLLNVI GMDKPLTPD FLAKFDYYMP AIAGCREAIK RIAYEFVEMK AKEGVVYVEV RYSPHLLANS KVEIPWNQA EGDLTPDEVV ALVGQGLQEG ERDFGVKARS ILCCMRHQPN WSPKVVVELCK KYQQQTVAI DLAGDETIPG SSLLPGHVQA YQEAVKSGIH RTVHAGEVGS AEVVKEAVDI LKTERLGHGY HTLEDQALYN RLRQENMHFE ICPWSSYL TG AWKPDTEHAV IRLKNDQANY SLNTDDPLIF KSTLDTDYQM TKRDMGFTEE EFKRLNINAA KSSFLPEDEK RELLDLKYA YGMPPSASAG QNL

### Application Note

Specific activity is approximately >25 units/mg. Enzymatic activity was confirmed by measuring the amount of enzyme that deaminates 1.0 µmol of adenosine to inosine per minute at pH 7.5 at 25°C.

