

Adenosine Deaminase Human Recombinant

| | |
|--|---|
| Item Number | rAP-0952 |
| Synonyms | Adenosine deaminase, Adenosine aminohydrolase, ADA1, EC 3.5.4.4. |
| Description | 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. |
| Uniprot Accession Number | P00813 |
| Amino Acid Sequence | MGSSHHHHHH SSGLVPRGSH MAQTPAFDKP KVELHVHLDG SIKPETILYY GRRRGIALPA NTAEGLLNVI GMDKPLTLPD FLAKFDYYMP AIAGCREAIK RIAYEFVEMK AKEGVVYVEV RYSPHLLANS KVEIPWNQA EGDLPDDEVV ALVGQGLQEG ERDFGVKARS ILCCMRHQPN WSPKVVVELCK KYQQQTVAI DLAGDETIPG SSLLPGHVQA YQEA VKSGIH RTVHAGEVGS AEVVKEAVDI LKTER- LGHGY HTLEDQALYN RLRQENMHFE ICPWSSYLTG AWKPDTEHAV IRLKNDQANY SLNTDDPLIF |
| Source | Escherichia Coli. |
| Physical Appearance and Stability | ADA is supplied as a sterile filtered clear solution. 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. |
| Formulation and Purity | ADA protein 0.5mg/ml is supplied in 20mM Tris-HCL, pH-8, 1mM DTT and 20% Glycerol. Greater than 85.0% as determined by SDS-PAGE. |
| Application | |
| Solubility | |
| Biological Activity | Specific activity: approximately >25 units/mg. Enzymatic activity was confirmed by measuring the amount of enzyme that deaminates 1.0 umol of adenosine to inosine per minute at pH 7.5 at 25C. |
| Shipping Format and Condition | Lyophilized powder at room temperature. |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**