

ADA Human

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.

Catalog #: ENPS-154

For research use only.

Synonyms: Adenosine deaminase, Adenosine aminohydrolase, ADA1, EC 3.5.4.4.

Source: Escherichia Coli.

Physical Appearance: ADA is supplied as a sterile filtered clear solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MAQTPAFDKP KVELHVHLDG
SIKPETILYY GRRRGIALPA NTAEGLLNVI GMDKPLTLPD FLAKFDYYMP AIAGCREAIK
RIAYEFVEMK AKEGVVYVEV RYSPHLLANS KVEPIPWNQA EGDLPDEVV ALVGQGLQEG
ERDFGVKARS ILCCMRHQPN WSPKVVELCK KYQQQTVVAI DLAGDETIPG SSLLPGHVQA
YQEAVKSGIH RT

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:

ADA protein 0.5mg/ml is supplied in 20mM Tris-HCL, pH-8, 1mM DTT and 20% Glycerol.

Stability:

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

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.

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.

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