
Product Data Sheet

Product Name: ADA Human
 Cat. No.: GP21353
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Adenosine deaminase; Adenosine aminohydrolase; ADA1; EC 3.5.4.4.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAQTPAFDKP KVELHVHLDG SIKPETILYY GRRRGIALPA NTAEGLLNVI GMDKPLTLPD FLAKFDYYMP AIAGCREAIK RIAYEFVEMK AKEGVVYVEV RYSPHLLANS KVEPIPWNQA EGDLPDEVV ALVGQGLQEG ERDFGVKARS ILCCMRHQPN WSPKVVELCK KYQQQTVAI DLAGDETIPG SLLPGHVQA YQEAVKSGIH RTVHAGEVGS AEVVKEAVDI LKTERLGHGY HTLEDQALYN RLRQENMHFE ICPWSSYL TG AWKPDTEHAV IRLKNDQANY SLNTDDPLIF KSTLDTDYQM TKRDMGFTEE EFKRLNINAA KSSFLPEDEK RELDLLYKA YGMPPSASAG QNL		
Formulation	ADA protein 0.5mg/ml is supplied in 20mM Tris-HCL, pH-8, 1mM DTT and 20% Glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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