
Product Data Sheet

Product Name: ADAT2 Human
 Cat. No.: GP21356
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DEADC1; TAD2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MEAKAAPKPA ASGACSVSAE ETEKWMEEAM HMAKEALENT EVPVGCLMVY NNEVVGKGRN EVNQTKNATRHAEMVAIDQV LDWCRQSGKS PSEVFEHTVL YVTVEPCIMC AAALRLMKIP LVVYGCQNER FGGCGSVLNI ASADLPNTGR PFQCIPGYRAEEAVEMLKTF YKQENPNAPK SKVRKKECQK S.		
Formulation	The ADAT2 (0.5mg/ml) protein contains 20mM Tris-HCl buffer pH-8, 2mM DTT, 50mM NaCl and 10% glycerol.		

Introduction

Adenosine Deaminase (ADA), also recognized as ADAT2 is an enzyme that takes part in purine metabolism. ADAT2 is necessary for the breakdown of adenosine from food and for the turnover of nucleic acids in tissues. ADAT2 is involved in the deamination of adenosine-34 to inosine in numerous tRNAs. ADAT2 is part of the cytidine and deoxycytidylate deaminase protein family, ADAT2 employs zinc as a cofactor. ADAT2 is a 191 amino acid enzyme that exists as two isoforms formed by alternative splicing events.

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.

Background

Recombinant Human ADAT2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 211 amino acids (1-191 a.a) and having a molecular mass of 23.2 kDa.

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

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ADAT2 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

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