

Recombinant Human ADAT2, His-tagged

Cat. No. ADAT2-790H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ADAT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW =23.2kDa (211aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	Adenosine deaminase (ADA), also known as ADAT2 is an enzyme involved in purine metabolism. It is needed for the breakdown of adenosine from food and for the turnover of nucleic acids in tissues. Also, ADAT2 is thought to participate in the deamination of adenosine-34 to inosine in many tRNAs. Belonging to the cytidine and deoxycytidylate deaminase protein family, ADAT2 employs zinc as a cofactor. ADAT2 is a 191 amino acid protein that exists as two isoforms produced by alternative splicing events.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MEAKAAPKPA ASGACSVSAE ETEKWMEEAM HMAKEALENT EVPVGCLMVY NNEVVGKGRN EVNQTKNATR HAEMVAIDQV LDWCRQSGKS PSEVFEHTVL YVTVEPCIMC AAALRLMKIP LVVYGQCNER FGGCGSVLNI ASADLPNTGR PFQCIPGYRA EEAVEMLKTF YKQENPNAPK SKVRKKECQK S
Purity	> 90% by SDS – PAGE.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 50mM

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	NaCl.
Concentration	0.5mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	ADAT2 adenosine deaminase, tRNA-specific 2, TAD2 homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Synonyms	ADAT2; adenosine deaminase, tRNA-specific 2, TAD2 homolog (<i>S. cerevisiae</i>); TAD2; DEADC1; dJ20N2; FLJ44213; dJ20N2.1; DKFZp686L1118; tRNA-specific adenosine deaminase 2; deaminase domain containing 1; deaminase domain-containing protein 1; tRNA-specific adenosine deaminase 2 homolog; tRNA-specific adenosine-34 deaminase subunit ADAT2; EC 3.5.4.-
Gene ID	134637
mRNA Refseq	NM_182503
Protein Refseq	NP_872309
UniProt ID	Q7Z6V5
Chromosome Location	6q24.2
Function	hydrolase activity; metal ion binding; zinc ion binding

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