

Product information



ADAT2, 1-191aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0709

Full name: tRNA-specific adenosine deaminase 2

NCBI Accession No.: NP_872309

Synonyms: DEADC1, TAD2

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. Recombinant human ADAT2 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

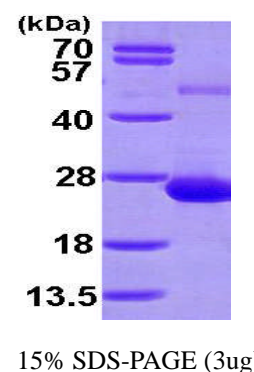
Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol,

2mM DTT, 50mM NaCl

Molecular Weight: 23.2kDa (211aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.5mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MEAKAAPKPA ASGACSVSAE ETEKWMEEAM HMAKEALENT EVPVGCLMVY NNEVVGKGRN EVNQTKNATR
HAEMVAIDQV LDWCRQSGKS PSEVFEHTVL YVTVEPCIMC AAALRLMKIP LVVYGQNER FGGCGSVLNI ASADLPNTGR PFGCIPGYRA
EEAVEMLKTF YKQENPNAPK SKVRKKECQK S

General references:

Persico AM, *et al.* (2000) *Am. J. Med. Genet.* 96 (6): 784–90.

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Kimura, K., et al. (2006) *Genome Res.* 16: 55-65.

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.

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