

Recombinant Human ADAT1, T7-tagged

Cat. No. ADAT1-28H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Adenosine Deaminase tRNA-Specific 1 produced in <i>E. Coli</i> is a non-glycosylated, polypeptide chain containing amino acids 1-502 and having a total molecular mass of 57.7 kDa. ADAT-1 contains T7 tag at N-terminus. ADAT1 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	This gene is a member of the ADAR (adenosine deaminase acting on RNA) family. Using site-specific adenosine modification, proteins encoded by these genes participate in the pre-mRNA editing of nuclear transcripts. The protein encoded by this gene, tRNA-specific adenosine deaminase 1, is responsible for the deamination of adenosine 37 to inosine in eukaryotic tRNA.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Formulation	Adenosine Deaminase tRNA-Specific-1 at 0.1 mg/ml, 10 mM Tris, pH 8.0, 0.1% Triton X-100, 0.002% Na ₃ N.
Applications	• ELISA • MS • Inhibition Assays • Western Blotting.
Stability	ADAT-1 although stable at 14°C for 1 week, should be stored desiccated below -

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18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	ADAT1 adenosine deaminase, tRNA-specific 1 [Homo sapiens]
Synonyms	ADAT1; adenosine deaminase, tRNA-specific 1; HADAT1;tRNA-specific adenosine deaminase 1;hADAT1; tRNA-specific adenosine-37 deaminase; EC 3.5.4; adenosine deaminase acting on Trna; adenosine deaminase, tRNA-specific 1
Gene ID	23536
mRNA Refseq	NM_012091
Protein Refseq	NP_036223
UniProt ID	Q9BUB4
Chromosome Location	16q23.1
MIM	604230
Function	RNA binding; hydrolase activity; metal ion binding; tRNA-specific adenosine deaminase activity; zinc ion binding

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