

Recombinant Human AADAT protein, His & T7-tagged

Cat. No. AADAT-1032H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AADAT aa. (Asn202~Ser425 (Accession # Q8N5Z0) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asn202~Ser425
Description	This gene encodes a protein that is highly similar to mouse and rat kynurenine aminotransferase II. The rat protein is a homodimer with two transaminase activities. One activity is the transamination of alpha-amino adipic acid, a final step in the saccharopine pathway which is the major pathway for L-lysine catabolism. The other activity involves the transamination of kynurenine to produce kynurenine acid, the precursor of kynurenic acid which has neuroprotective properties. Several transcript variants encoding two different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.0kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>90%

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Characteristic	The isoelectric point is 5.8.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

GENE INFORMATION

Gene Name	AADAT aminoadipate aminotransferase [Homo sapiens (human)]
Official Symbol	AADAT
Synonyms	AADAT; aminoadipate aminotransferase; KAT2; KATII; KYAT2; kynurenine/alpha-aminoadipate aminotransferase, mitochondrial; 2-aminoadipate aminotransferase; 2-aminoadipate transaminase; KAT/AadAT; L kynurenine/alpha aminoadipate aminotransferase; alpha-aminoadipate aminotransferase; kynurenine aminotransferase II; kynurenine--oxoglutarate aminotransferase II; kynurenine--oxoglutarate transaminase 2; kynurenine--oxoglutarate transaminase II

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Gene ID	51166
mRNA Refseq	NM_001286682.1
Protein Refseq	NP_001273611.1
UniProt ID	Q8N5Z0

SDS-PAGE

