

Recombinant Human AADAT Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AADAT-2116H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AADAT MS Standard C13 and N15-labeled recombinant protein (NP_872603) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	47.2 kDa
AA Sequence	MNYARFITAASAARNPSPIRTMTDILSRGPKSMISLAGGLPNPNMFPFKTAVITVENG KTIQFG EEMMKRALQYSPSAGIPELLSWLKQLQIKLHNPPTIHYPPSQGQMDLCVTS GSQQGLCKVFEMIINPGDNVLLDEPAYSGTLQSLHPLGCNIINVASDESGIVPDSL RDI LSRWKPEDAKNPQKNTPKFLYTPNGNNPTGNSLT SERKKEIYELARKYDFLIIEDDP YYFLQFNKFRVPTFLSMDVDGRVIRADSFSKIISSGLRIGFLTGP KPLIERVILHIQVST LHPSTFNQLMISQLLHEWGEEGFMAHVDRVIDFY SNQKDAILAAADKWL TGLAEWH

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VPAAGMFLWIKVKGINDVKELIEEKAVKMGVLMPLPGNAFYVDSSAPSPYLRAFSSA
SPEQMDVAFQVLAQLIKESLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	AADAT aminoadipate aminotransferase [Homo sapiens (human)]
Official Symbol	AADAT
Synonyms	AADAT; aminoadipate aminotransferase; kynurenine/alpha-aminoadipate aminotransferase, mitochondrial; KAT2; KATII; kynurenine aminotransferase II; L kynurenine/alpha aminoadipate aminotransferase; KAT/AadAT; 2-aminoadipate transaminase; 2-aminoadipate aminotransferase; alpha-aminoadipate aminotransferase; kynurenine--oxoglutarate transaminase II; kynurenine--oxoglutarate aminotransferase II;
Gene ID	51166
mRNA Refseq	NM_182662

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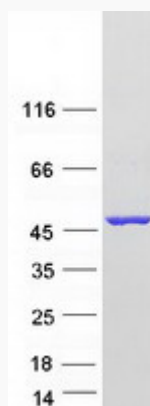
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Protein Refseq NP_872603

MIM 611754

UniProt ID Q8N5Z0

SDS-PAGE



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