

# Recombinant Full Length Human AADAT Protein, GST-tagged

**Cat. No.** AADAT-749HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human AADAT full-length ORF ( AAH31068.1, 1 a.a. - 429 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 429 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | 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 saccaropine 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. [provided by RefSeq, Nov 2013] |
| <b>Molecular Mass</b>   | 74.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MNYARFITAA SAARNPSPIR TMSEKRADIL SRGPKSMISL AGGLPNPNMF<br>PFKTAVITVE NGKTIQFGEE MMKRALQYSP SAGIPELLSW LKQLQIKLHN<br>PPTIHYQPSQ GQMDLCVTSG SQQGLCKVFE MIINPGDNVL LDEPAYSGTL<br>QSLHPLGCNI INVASDESGI VPDSLRLDILS RWKPEDAKNP QKNTPKFLYT<br>VPNGNNPTGN SLTSEKKEI YELARKYDFL IIEDDPYYFL QFNKFRVPTF                                                                                                                                                                                                                                                                                                                           |

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LSMDVDGRVI RADFSKIIS SGLRIGFLTG PKPLIERVIL HIQVSTLHPS  
TFNQLMISQL LHEWGEEGFM AHVDRVIDFY SNQKDAILAA ADKWLTGLAE  
WHVPAAGMFL WIKVKGINDV KELIEEKAVK MGVLMPLGNA FYVDSSAPSP  
YLRASFSSAS PEQMDVAFQV LAQLIKESL

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [AADAT aminoadipate aminotransferase \[ Homo sapiens \]](#)

**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\\_016228](#)

**Protein Refseq** [NP\\_057312](#)

**MIM** [611754](#)

**UniProt ID** [Q8N5Z0](#)

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