# Active Recombinant Full Length Human AADAT Protein, C-Flag-tagged

**Cat. No.** AADAT-570HFL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Full Length Human AADAT Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **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-aminoadipic 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. |
| **Form** | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Bio-activity** | The specific activity of KATII was determined by measuring the product Kynurenic acid formation from a conversion of Kynurenine. The reaction was carried out at 37 centigrade for 15min in the buffer containing PBS, pH7.4, 2mM a-oxoglutarate, 40μM PLP (pyridoxal 5'-phosphate), and 0.5mM kynurenine as the substrate. |
| **Molecular Mass** | 47.2 kDa |

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| **AA Sequence** | MNYARFITAASAARNPSPIRTMTDILSRGPKSMISLAGGLPNPNMFPFKTAVITVENG KTIQFGEEMMKR ALQYSPSAGIPELLSWLKQLQIKLHNPPTIHYPPSQGQMDLCVTS GSQQGLCKVFEMIINPGDNVLLDEP AYSGTLQSLHPLGCNIINVASDESGIVPDSLRD ILSRWKPEDAKNPQKNTPKFLYTVPNGNNPTGNSLTS ERKKEIYELARKYDFLIIEDD PYYFLQFNKFRVPTFLSMDVDGRVIRADSFSKIISSGLRIGFLTGPKPL IERVILHIQVS TLHPSTFNQLMISQLLHEWGEEGFMAHVDRVIDFYSNQKDAILAAADKWLTGLAEW HVP AAGMFLWIKVKGINDVKELIEEKAVKMGVLMLPGNAFYVDSSAPSPYLRASFSS ASPEQMDVAFQVLAQL IKESLTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade. |
| **Concentration** | >50 ug/mL as determined by microplate BCA method. |
| **Preparation** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Protein Pathways** | Lysine biosynthesis, Lysine degradation, Metabolic pathways, Tryptophan metabolism |
| **Full Length** | Full L. |

## GENE INFORMATION

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|---|---|
| **Gene Name** | AADAT aminoadipate aminotransferase [ Homo sapiens (human) ] |

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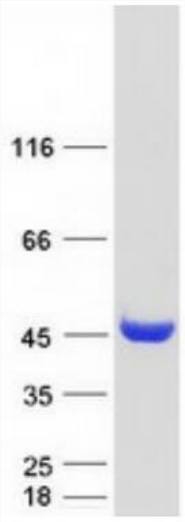
| **Official Symbol** | AADAT |
| **Synonyms** | KAT2; KATII; KYAT2 |
| **Gene ID** | 51166 |
| **mRNA Refseq** | NM_016228.4 |
| **Protein Refseq** | NP_057312.1 |
| **MIM** | 611754 |
| **UniProt ID** | Q8N5Z0 |




Coomassie blue staining of purified AADAT protein.

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