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

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

SPECIFICATION

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

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

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