

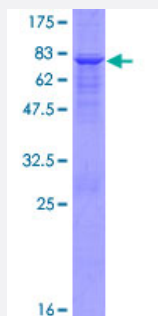
Full-Length

AADAT (Human) Recombinant Protein (P01)

Catalog # H00051166-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human AADAT full-length ORF (AAH31068.1, 1 a.a. - 429 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MNYARFITAASAARNPSPIRTMSEKRADILSRGPKSMISLAGGLPNPNMFPKTAVITVENGKTIQF
GEEMMKRALQYSPSAGIPELLSWLKQLQKLHNPTTIHYQPSQGQMDLCVTSGSQQLCKVFEMII
NPGDNVLLDEPAYSGTLQSLHPLGCNIINVASDESGVPSLRDILSRWKPEDAKNPQKNTPKFLY
TVPNGNPTGNSLTSEKKEYELARKYDFLIIEDDPYYFLQFNKFRVPTFLSMDVDGRVIRADSFS
KISSGLRIGFLTGPKPLIERVILHIQVSTLHPSTFNQLMISQLLHEWGEEGFMAHVDRVIDFYSNQKD
AIIAAADKWLTGLAEWHVPAAGMFLWIKVKGINDVKELIEEKAVKMGVLMPLPGNAFYVDSSAPSP
YLRASFSSASPEQMDVAFQVLAQLIKESL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

74.3

Interspecies Antigen Sequence

Mouse (72); Rat (71)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — AADAT

Entrez GeneID [51166](#)

GeneBank Accession# [BC031068.1](#)

Protein Accession# [AAH31068.1](#)

Gene Name AADAT

Gene Alias KAT2, KATII

Gene Description aminoadipate aminotransferase

Gene Ontology [Hyperlink](#)

Gene Summary 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. Two alternative transcripts encoding the same isoform have been identified, however, additional alternative transcripts and isoforms may exist. [provided by RefSeq]

Other Designations L kynurenine/alpha aminoadipate aminotransferase|L-kynurenine/alpha-aminoadipate aminotransferase|alpha-aminoadipate aminotransferase|kynurenine aminotransferase II

Pathway

- [Lysine biosynthesis](#)
- [Lysine degradation](#)
- [Metabolic pathways](#)
- [Tryptophan metabolism](#)