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Product datasheet for PH322252

Aminoadipate aminotransferase (AADAT) (NM_182662) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AADAT MS Standard C13 and N15-labeled recombinant protein (NP_872603)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222252
Predicted MW:	47.2 kDa
Protein Sequence:	>RC222252 representing NM_182662 Red=Cloning site Green=Tags(s) MNYARFITAASAARNPSPIRTMTDILSRGPKSMISLAGGLPNPNMFPFKTAVITVENGKTIQFGEEMMKR ALQYSPSAGIPELLSWLKQLQIKLHNPPTIHYPPSQGQMDLCVTSGSQQGLCKVFEMIINPGDNVLLDEP AYSGTLQSLHPLGCNIINVASDESGIVPDSLRDILSRWKPEDAKNPQKNTPKFLYTVPNGNNPTGNSLTS ERKKEIYELARKYDFLIIEDDPYYFLQFNKFRVPTFLSMDVDGRVIRADSFSKIISSGLRIGFLTGPKPL IERVILHIQVSTLHPSTFNQLMISQLLHEWGEEGFMAHVDRVIDFYSNQKDAILAAADKWLTGLAEWHVP AAGMFLWIKVKGINDVKELIEEKAVKMGVLMLPGNAFYVDSSAPSPYLRASFSSASPEQMDVAFQVLAQL IKESL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_872603
RefSeq Size:	2108
RefSeq ORF:	1275
Synonyms:	KAT2; KATII; KYAT2

View online »

Locus ID: 51166

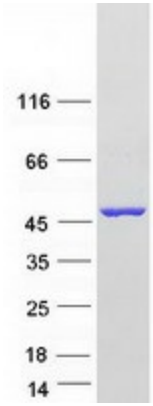
UniProt ID: Q8N5Z0, Q4W5N8

Cytogenetics: 4q33

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. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]

Protein Pathways: Lysine biosynthesis, Lysine degradation, Metabolic pathways, Tryptophan metabolism

Product images:



Coomassie blue staining of purified AADAT protein (Cat# [TP322252]). The protein was produced from HEK293T cells transfected with AADAT cDNA clone (Cat# [RC222252]) using MegaTran 2.0 (Cat# [TT210002]).