

AADAT Protein, Human, Recombinant (His & SUMO)

General Information

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| Synonyms: | 2-aminoadipate aminotransferase;Kynurenine/alpha-aminoadipate aminotransferase, mitochondrial;KAT/AadAT;Kynurenine--oxoglutarate transaminase 2;Kynurenine aminotransferase II;mitochondrial;Methionine--glyoxylate transaminase AADAT;Kynurenine--glyoxylate transaminase AADAT;KYAT2;Kynurenine--oxoglutarate transaminase II;Kynurenine--oxoglutarate aminotransferase II;Alpha-aminoadipate aminotransferase (AadAT);Glycine transaminase AADAT;AADAT;2-aminoadipate transaminase;KAT2 |
| Protein Construction: | 30-425 aa |
| Species: | Human |
| Expression Host: | E. coli |
| Accession: | Q8N5Z0 |
| Molecular Weight: | 60.2 kDa (predicted) |
| AA Sequence: | PKSMISLAGGLPNPNMFPFKTAVITVENGKTIQFGEEMMKRALQYSPSAGIPELLSWLKQLQIKLHNPPTIHYP PSQGQMDLCVTSQSGSQQLCKVFEMIINPGDNVLLDEPAYSGTLQSLHPLGCNIINVASDESGIVPDSLRLILSR WKPEDAKNPQKNTPKFLYTPNGNNTGNSLTSEKKEIYELARKYDFLIIEDDPYFLQFNKFRVPTFLSMDV DGRVIRADSFSKIISGLRIGFLTGPKPLIERVILHIQVSTLHPSTFNQLMISQLLHEWGEEGFMAHVDRVIDFYS NQKDAILAAADKWLTLGLAEWHVPAAGMFLWIKVKGINDVKELIEEKAVKMGVLMPLGNAFYVDSSAPSPYL RASFSASPEQMDVAFQVLAQLIKESL |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 90% as determined by SDS-PAGE. |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Tris-based buffer, 50% glycerol |

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Transaminase with broad substrate specificity. Has transaminase activity towards aminoadipate, kynurenine, methionine and glutamate. Shows activity also towards tryptophan, aspartate and hydroxykynurenine. Accepts a variety of oxo-acids as amino-group acceptors, with a preference for 2-oxoglutarate, 2-oxocaproic acid, phenylpyruvate and alpha-oxo-gamma-methyl butyric acid. Can also use glyoxylate as amino-group acceptor (in vitro).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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