

Recombinant Human ALT2, His-tagged

Cat. No. ALT2-3249H Lot. No. (See product label)

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | Alanine Aminotransferase 2 (ALT2) |
| Species | Human |
| Source | E.coli |
| ProteinLength | 423 |
| Description | This gene encodes one of the two pyridoxal enzymes which catalyze a reversible transamination reaction to yield glutamate and pyruvate so these enzymes participate in amino acid metabolism and gluconeogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. |
| Form | Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl. |
| Molecular Mass | 12.0kDa |
| Endotoxin | <1.0eu per 1ug (determined by the lal</1.0eu |
| Purity | >95% |
| Applications | SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP) |
| Notes | Small volumes of ALT2 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly |

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centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

Reconstitution

Reconstitute in sterile PBS, pH 7.2-pH 7.4.

Warning

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

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|------------------------|--|
| Gene Name | GPT2 glutamic pyruvate transaminase (alanine aminotransferase) 2 [Homo sapiens] |
| Official Symbol | GPT2 |
| Synonyms | GPT2; ALT2; alanine aminotransferase 2; GPT 2; glutamic--alanine transaminase 2; glutamic--pyruvic transaminase 2; glutamic-pyruvate transaminase 2; glutamate pyruvate transaminase 2 |
| Gene ID | 84706 |
| mRNA Refseq | NM_001142466 |
| Protein Refseq | NP_001135938 |

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| MIM | 138210 |
| UniProt ID | Q8TD30 |
| Chromosome Location | 16q12.1 |
| Pathway | 2-Oxocarboxylic acid metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem |
| Function | L-alanine:2-oxoglutarate aminotransferase activity; L-alanine:2-oxoglutarate aminotransferase activity; pyridoxal phosphate binding |

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