

## Active Recombinant Mouse Got1 Protein, His tagged

**Cat. No.** Got1-7214M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant mouse Got1 fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 1-413 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Enables L-aspartate:2-oxoglutarate aminotransferase activity and phosphatidylserine decarboxylase activity. Involved in gluconeogenesis and malate-aspartate shuttle. Acts upstream of or within several processes, including dicarboxylic acid metabolic process; fatty acid homeostasis; and glycerol biosynthetic process. Is active in cytosol. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; integumental system; and sensory organ. Human ortholog(s) of this gene implicated in amyloidosis; amyotrophic lateral sclerosis; pancreatic ductal adenocarcinoma; and transient cerebral ischemia. Orthologous to human GOT1 (glutamic-oxaloacetic transaminase 1). |
| <b>Form</b>             | Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Bio-activity</b>     | Specific activity is > 80 unit/mg, and is defined as the amount of enzyme that converts 1.0 micromole of alpha-ketoglutarate to L-Glutamate per minute at pH 8.0 at 25 centigrade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b>   | 48.6 kDa (436aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AASequence</b>       | MAPPSVFAQVPQAPPVLVFKLTADFRDDPDPRKVN LGVGAYRTDESQPWVLPVVR<br>KVEQKIANDNSLNHEYLPILGLAEFRSCASRLVLGDN SPAIRENRVGGVQSLGGTGA<br>LRIGADFLGRWYNGTDNKNTPIYVSSPTWENHNAVFS AAGFKDIRPYCYWDAEKRG<br>LDLQGFLNDLENAPEFSIFVLHACAHNPTGT DPTPEQWKQIAAVMQRRFLFPFFDSA<br>YQGFASGDLEKDAWAIRYFVSEGFELFCAQSFSKNFGLYNERVGNLTVVGKESDSV<br>LRVLSQMEKIVRITWSNPPAQGARIVAATLSDP ELFKEWKGNVKTMA DRILTMRSEL<br>RARLEALKTPGTW SHITEQIGMFSFTGLNPKQVEYLVNEKH IYLLPSGRINMCGLTTK<br>NLDYVATSIHEAVTKIQ |
| <b>Purity</b>           | > 95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Applications</b>     | SDS-PAGE, Enzyme Activity                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Notes</b>            | For research use only. This product is not intended or approved for human, diagnostics or veterinary use.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>          | Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                     |
| <b>Concentration</b>    | 0.5 mg/mL (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Name</b>        | Got1 glutamic-oxaloacetic transaminase 1, soluble [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b>  | Got1                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>         | Got1; glutamic-oxaloacetic transaminase 1, soluble; cCAT; Got-1; cAspAT; aspartate aminotransferase, cytoplasmic; cysteine aminotransferase, cytoplasmic; cysteine                                                                                                                                                                                                                                                                                                |

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transaminase, cytoplasmic; cytosolic aspartate aminotransferase; glutamate oxaloacetate transaminase 1, soluble; transaminase A; EC 2.6.1.1; EC 2.6.1.3

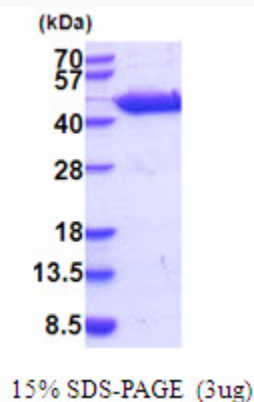
**Gene ID** [14718](#)

**mRNA Refseq** [NM\\_010324](#)

**Protein Refseq** [NP\\_034454](#)

**UniProt ID** [P05201](#)

#### SDS-PAGE and WB



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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