

Recombinant Mouse Ggt1 protein, His & T7-tagged

Cat. No. Ggt1-6880M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Ggt1 aa. (Asn296~Pro537 (Accession # Q60928)) fused with N-terminal His & T7 tag was produced in E. coli cells.

Species Mouse

Source E.coli

ProteinLength Asn296~Pro537

Description This gene encodes gamma-glutamyl transpeptidase, a plasmamembrane-associated enzyme that cleaves the peptide bond between gamma-glutamyl and cysteinyl glycine moieties of glutathione. The encoded protein is autocatalytically processed to generate an enzymatically active heterodimer comprised of heavy and light chains. Mice lacking the encoded protein grow slowly, develop cataracts and have elevated levels of glutathione in plasma and urine. Transgenic overexpression of the encoded protein in mice enhances osteoclastic bone resorption. The mutant alleles termed 'Dwarf grey' and 'Dwarf grey Bayer' in mice are associated with deletions in this gene. A gamma-glutamyl transpeptidase paralog is located adjacent to this gene. Alternative splicing results in multiple transcript variants. Additional transcripts using alternate promoters and differing in 5' UTRs have been described.

Form Freeze-dried powder

Molecular Mass Predicted Molecular Mass: 30.3kDa.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.9.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	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°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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Ggt1 gamma-glutamyltransferase 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Ggt1
Synonyms	GGT; dwg; Ggtp; CD224; GGT 1; GGT-1; glutathione hydrolase 1; leukotriene-C4 hydrolase; gamma-glutamyltranspeptidase 1

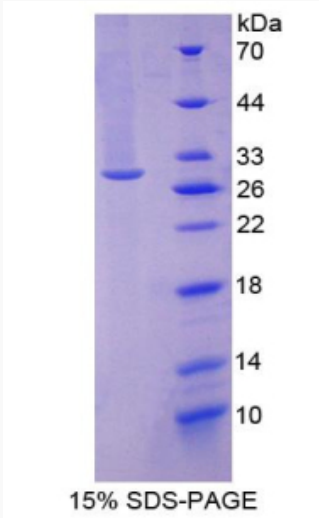
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Gene ID	14598
mRNA Refseq	NM_001305992.1
Protein Refseq	NP_001292921.1
UniProt ID	Q60928

SDS-PAGE



15% SDS-PAGE

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