

Active Recombinant Mouse Gsta1 protein, His-tagged

Cat. No. Gsta1-27M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gsta1(1-223aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	1-223 a.a.
Description	Gsta1 also known as Glutathione S-transferase, A1, belongs to a glutathione S-transferase alpha class and is the most abundantly expressed in liver. This protein functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione.
Form	Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Bio-activity	Specific activity is > 4,000 pmol/min/ug, and is defined as the amount of enzyme that conjugate 1.0 pmole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25C.
Molecular Mass	28kDa (246aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGKPVL HYFNARGRME CIRWLLAAAG VEFEEKFIQS PEDLEKLKGD GNLMFDQVPM VEIDGMKLAQTRAILNYIAT

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KYDLYGKDMK ERALIDMYSE GILDLTEMIG QLVLCPPDQR EAKTALAKDR
TKNRYLPAFE KVLKSHGQDY LVGNRLTRVDIHLLEVLLYV EEFDASLLTP
FPLLKAFKSR ISSLPNVKKF LQPGSQRKPP MDAKQIQEAR KAFKIQ

Purity > 95% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [Gsta1 glutathione S-transferase, alpha 1 \(Ya\) \[Mus musculus \]](#)

Official Symbol [Gsta1](#)

Synonyms GSTA1; glutathione S-transferase, alpha 1 (Ya); glutathione S-transferase A1; GST class-alpha member 1; glutathione S-transferase Ya; glutathione S-transferase Ya1; Gst2-1; OTTMUSG00000031890;

Gene ID [14857](#)

mRNA Refseq [NM_008181](#)

Protein Refseq [NP_032207](#)

MIM

UniProt ID

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Chromosome Location	9 E1; 9 43.65 cM
Pathway	Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Estrogen metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem;
Function	drug binding; glutathione binding; glutathione transferase activity; glutathione transferase activity; transferase activity;

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