

Recombinant Mouse Gsta1, His-tagged

Cat. No. Gsta1-66M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Gsta1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	E.coli
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
Molecular Mass	28kDa (246aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGKPVL HYFNARGRME CIRWLLAAAG VEFEKFIQS PEDLEKLKGD GNLMTDQVPM VEIDGMKLAQ TRAILNYIAT KYDLYGKDMK ERALIDMYSE GILDLTEMIG QLVLCPPDQR EAKTALAKDR TKNRYLPAGE KVLKSHGQDY LVGNRLTRVD IHLLEVLLYV EEFDASLLTP FPLLKAFKSR ISSLPNVKKF LQPGSQRKPP MDAKQIQEAR KAFKIQ
Purity	>95% by SDS - PAGE

 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

Storage

Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. 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](#)

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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