

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; OTTMUSG000000031890;
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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