

## Recombinant Human Glutathione S-transferase Alpha 3

Cat. No. GSTA3-2472H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GST A3-3 was expressed in <i>E. coli</i> . MW= 25 kDa.
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>Description</b>	Glutathione S-transferase A3 is an enzyme that in humans is encoded by the GSTA3 gene. Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta.
<b>Specific Activity</b>	61 U/mg using spectrophotometric determination of 1-chloro-2,4-dinitrobenzene (CDNB) conjugation with reduced glutathione (1 mM) in 100 mM NaPO <sub>4</sub> (pH 6.5) at room temperature.
<b>Concentration</b>	1.0 mg/mL total protein using the Bradford protein assay with BSA as a standard.
<b>Storage Buffer</b>	50 mM Tris-HCl (pH 7.5), 50 mM NaCl, 1 mM DTT, 5 mM EDTA and 50% glycerol.
<b>Purity</b>	≥95% as assessed by inspection on a Coomassie® Blue-stained SDS-PAGE gel.
<b>Storage</b>	-20°C; avoid multiple freeze-thaw cycles.

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## GENE INFORMATION

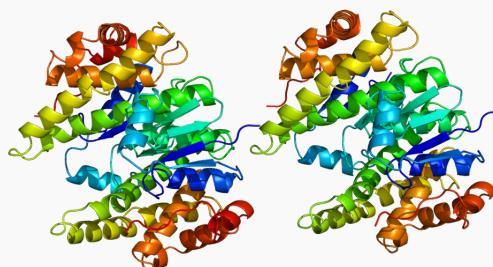
<b>Gene Name</b>	GSTA3 glutathione S-transferase alpha 3 [ Homo sapiens ]
<b>Synonyms</b>	glutathione S-transferase alpha 3; GTA3; GSTA3-3; MGC22232; GSTA3; glutathione S-transferase A3; GST class-alpha member 3; glutathione S-transferase A3-3; glutathione S-aryltransferase A3; glutathione S-alkyltransferase A3; glutathione S-aralkyltransferase A3; S-(hydroxyalkyl)glutathione lyase A3; Glutathione S-transferase A3-3; GST class-alpha; EC 2.5.1.18
<b>Gene ID</b>	2940
<b>mRNA Refseq</b>	NM_000847
<b>Protein Refseq</b>	NP_000838
<b>MIM</b>	605449
<b>UniProt ID</b>	Q16772
<b>Chromosome Location</b>	6p12.1
<b>Pathway</b>	Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolism of xenobiotics by cytochrome P450; Biological oxidations
<b>Function</b>	glutathione transferase activity; transferase activity

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