

Recombinant Human Glutathione S-transferase Alpha 3

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

SPECIFICATION

Product Overview	Recombinant Human GST A3-3 was expressed in <i>E. coli</i> . MW= 25 kDa.
Species	Human
Source	E.coli
Description	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.
Specific Activity	61 U/mg using spectrophotometric determination of 1-chloro-2,4-dinitrobenzene (CDNB) conjugation with reduced glutathione (1 mM) in 100 mM NaPO ₄ (pH 6.5) at room temperature.
Concentration	1.0 mg/mL total protein using the Bradford protein assay with BSA as a standard.
Storage Buffer	50 mM Tris-HCl (pH 7.5), 50 mM NaCl, 1 mM DTT, 5 mM EDTA and 50% glycerol.
Purity	≥95% as assessed by inspection on a Coomassie® Blue-stained SDS-PAGE gel.
Storage	-20°C; avoid multiple freeze-thaw cycles.

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GENE INFORMATION

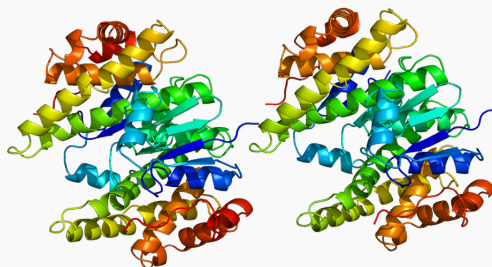
Gene Name	GSTA3 glutathione S-transferase alpha 3 [Homo sapiens]
Synonyms	glutathione S-transferase alpha 3; GTA3; GSTA3-3; MGC22232; GSTA3; glutathione S-transferase A3; GST class-alpha member 3; glutathione S-transferase A3-3; glutathione S-aryltransferase A3; glutathione S-alkyltransferase A3; glutathione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

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