

Recombinant Human GSTA2

Cat. No. GSTA2-27546TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GSTA2 with 25 kDa proprietary tag produced in <i>Saccharomyces cerevisiae</i> ; amino acids 1-222; 222 amino acids, 25.6kDa.
Species	Human
ProteinLength	1-222 a.a.
Description	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding these enzymes are known to be highly polymorphic. These genetic variations can change an individuals susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of some drugs. 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. This gene encodes a glutathione S-transferase belonging to the alpha class. The alpha class genes, located in a cluster mapped to chromosome 6, are the most abundantly expressed glutathione S-transferases in liver. In addition to metabolizing bilirubin and certain anti-cancer drugs in the liver, the alpha class of these enzymes exhibit glutathione peroxidase activity thereby protecting the cells from reactive oxygen species and the products of peroxidation.
Form	Liquid

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Purity	Immunogen affinity purified
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MAEKPKLHYSNIRGRMESIRWLLAAAGVEFEEKFIKSAED LDKLRNDGYLMFQQVP MVEIDGMKLVQTRAILNYIASK YNLYGKDIKEKALIDMYIEGIADLGEMILLLPFTQPEE QDAKLALIQEKTKNRYFPAPFEKVLKSHGQDYLGVGNKLS RADHLLVELLYYVEELDSSL ISSFPLLKALKTRISNLP TVKKFLQPGSPRKPPMDEKSLEESRKIFRF
Full Length	Full L.

GENE INFORMATION

Gene Name	GSTA2 glutathione S-transferase alpha 2 [Homo sapiens]
Official Symbol	GSTA2
Synonyms	GSTA2; glutathione S-transferase alpha 2; glutathione S transferase A2 , GST2; glutathione S-transferase A2;
Gene ID	2939
mRNA Refseq	NM_000846
Protein Refseq	NP_000837
MIM	138360

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Uniprot ID	P09210
Chromosome Location	6p12.2
Pathway	Biological oxidations, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem;
Function	glutathione transferase activity; glutathione transferase activity; transferase activity;

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