

Recombinant Human GSTA4, GST-tagged

Cat. No. GSTA4-27771TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GSTA4 with N terminal proprietary tag. Predicted MW 50.16 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	222 amino acids
Description	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. This gene encodes a glutathione S-transferase belonging to the alpha class. The alpha class genes, which are located in a cluster on chromosome 6, are highly related and encode enzymes with glutathione peroxidase activity that function in the detoxification of lipid peroxidation products. Reactive electrophiles produced by oxidative metabolism have been linked to a number of degenerative diseases including Parkinsons disease, Alzheimers disease, cataract formation, and atherosclerosis.
Conjugation	GST
Molecular Weight	50.160kDa inclusive of tags

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Tissue specificity	Expressed at a high level in brain, placenta, and skeletal muscle and much lower in lung and liver.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAARPKLHYPNGRGRMESVRWVLAAGVEFDEEFLETKEQ LYKLQDGNHLLFQQV PMVEIDGMKLVQTRSLHYIADKHN LFGKNLKERTLIDMYVEGTLDLLELLIMHPFLKP DDQQKE VVNMAQKAIIRYFPVFEEKILRGHGQSFLVGNQLSLADVIL LQTILALEEKIP NILSAFPFLQEYTVKLSNIPTIKRFLEP GSKKKPPPDEIYVRTVYNIFRP
Sequence Similarities	Belongs to the GST superfamily. Alpha family. Contains 1 GST C-terminal domain. Contains 1 GST N-terminal domain.

GENE INFORMATION

Gene Name	GSTA4 glutathione S-transferase alpha 4 [Homo sapiens]
Official Symbol	GSTA4
Synonyms	GSTA4; glutathione S-transferase alpha 4; glutathione S transferase A4; glutathione S-transferase A4;
Gene ID	2941

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mRNA Refseq	NM_001512
Protein Refseq	NP_001503
MIM	605450
Uniprot ID	O15217
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; glutathione transferase activity; protein homodimerization activity; transferase activity;

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