

Recombinant Human GSTA4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GSTA4-3452H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GSTA4 MS Standard C13 and N15-labeled recombinant protein (NP_001503) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Parkinson's disease, Alzheimer's disease, cataract formation, and atherosclerosis.
Molecular Mass	25.7 kDa
AA Sequence	MAARPKLHYPNGRGRMESVRWVLAAGVEFDEEFLETKEQLYKLQDGNHLLFQQV

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PMVEIDGMKLVQTRSILHYIADKHNLFSGKLNKERTLIDMYVEGTLDLLELLIMHPFLKP
DDQQKEVVNMAQKAIIRYFPVFEEKILRGHGQSFLVGNQLSLADVILLQTILALEEKIPNI
LSAFPFLQEYTVKLSNIPTIKRFLEPGSKKKPPPDEIYVRTVYNIFRPTTRTRPLEQKLIS
EEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [GSTA4 glutathione S-transferase alpha 4 \[Homo sapiens \(human\) \]](#)

Official Symbol [GSTA4](#)

Synonyms GSTA4; glutathione S-transferase alpha 4; glutathione S transferase A4; glutathione S-transferase A4; GST class-alpha member 4; glutathione transferase A4-4; glutathione S-transferase A4-4; glutathione S-aryltransferase A4; glutathione S-alkyltransferase A4; glutathione S-aralkyltransferase A4; S-(hydroxyalkyl)glutathione lyase A4; GTA4; GSTA4-4; DKFZp686D21185;

Gene ID [2941](#)

mRNA Refseq [NM_001512](#)

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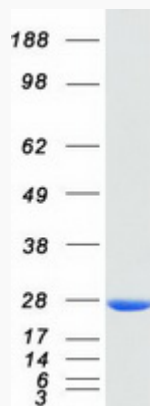
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Protein Refseq NP_001503

MIM 605450

UniProt ID O15217

SDS-PAGE



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