

Recombinant Human GSTA3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GSTA3-528H Lot. No. (See product label)

SPECIFICATION

Product Overview	GSTA3 MS Standard C13 and N15-labeled recombinant protein (NP_000838) 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 genes that are located in a cluster mapped to chromosome 6. Genes of the alpha class are highly related and encode enzymes with glutathione peroxidase activity. However, during evolution, this alpha class gene diverged accumulating mutations in the active site that resulted in differences in substrate specificity and catalytic activity. The enzyme encoded by this gene catalyzes the double bond isomerization of precursors for progesterone and testosterone during the biosynthesis of steroid hormones. An additional transcript variant has been identified, but its full length sequence has not been determined.
Molecular Mass	25.3 kDa

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AA Sequence	MAGKPKLHYFNNGRGRMEPIRWLLAAAGVEFEEKFIGSAEDLGKLRNDGSLMFQQVP MVEIDGIKLVQTRAILNYIASKYNLYGKDIKERALIDMYTEGMADLNEMILLPLCRPEE KDAKIALIKEKTKSRYFPFAFEKVLQSHGQDYLVGKLSRADISLVELLYYVEELDSSLI SNFPLLKALKTRISNLPTVKKFLQPGSPRKPPADAKALEEARKIFRFTTRTRPLEQKLIS 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	GSTA3 glutathione S-transferase alpha 3 [Homo sapiens (human)]
Official Symbol	GSTA3
Synonyms	GSTA3; glutathione S-transferase alpha 3; glutathione S transferase A3; 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; GTA3; GSTA3-3; MGC22232;
Gene ID	2940

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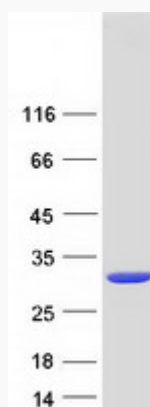
mRNA Refseq [NM_000847](#)

Protein Refseq [NP_000838](#)

MIM [605449](#)

UniProt ID [Q16772](#)

SDS-PAGE



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