

Product datasheet for PH304624

GSTA3 (NM_000847) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards **Description:** GSTA3 MS Standard C13 and N15-labeled recombinant protein (NP_000838) Species: Human **HEK293 Expression Host:** RC204624 **Expression cDNA Clone** or AA Sequence: Predicted MW: 25.3 kDa >RC204624 protein sequence Protein Sequence: Red=Cloning site Green=Tags(s) MAGKPKLHYFNGRGRMEPIRWLLAAAGVEFEEKFIGSAEDLGKLRNDGSLMFQQVPMVEIDGIKLVQTRA ILNYIASKYNLYGKDIKERALIDMYTEGMADLNEMILLLPLCRPEEKDAKIALIKEKTKSRYFPAFEKVL QSHGQDYLVGNKLSRADISLVELLYYVEELDSSLISNFPLLKALKTRISNLPTVKKFLQPGSPRKPPADA KALEEARKIFRF TRTRPLEQKLISEEDLAANDILDYKDDDDKV Tag: C-Myc/DDK **Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining **Concentration:** >0.05 µg/µL as determined by microplate BCA method Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine **Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3 Storage: Store at -80°C. Avoid repeated freeze-thaw cycles. Stability: Stable for 3 months from receipt of products under proper storage and handling conditions. RefSeq: NP 000838 **RefSeq Size:** 915 **RefSeq ORF:** 666 Synonyms: GSTA3-3; GTA3 Locus ID: 2940 UniProt ID: 016772



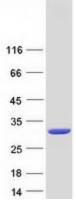
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	GSTA3 (NM_000847) Human Mass Spec Standard – PH304624
Cytogenetics:	6p12.2
Summary:	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes are involved in cellular defense against 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-tranferase 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. [provided by RefSeq, Jul 2008]
Protein Pathway	ys: Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450

Product images:



Coomassie blue staining of purified GSTA3 protein (Cat# [TP304624]). The protein was produced from HEK293T cells transfected with GSTA3 cDNA clone (Cat# [RC204624]) using MegaTran 2.0 (Cat# [TT210002]).

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