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Recombinant Mouse GSTA3 Protein, N-His

Catalog Number:	bs-105568P
Species:	Mouse
AA Seq:	1-221/221
Predicted MW:	27.52 kDa
Tags:	N-His
Activity:	Not tested
Purity:	>90% as determined by SDS-PAGE.
Purification:	AC
Form:	Lyophilized
Storage:	Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1%
	Mannitol.
	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8°C for
	frequent use. Store at -20 to -80°C for twelve months from the date of receipt.
Background:	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. Glutathione S-transferase A3
	(GSTA3) belongs 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. GSTA3 catalyzes the double bond isomerization of precursors for
	progesterone and testosterone during the biosynthesis of steroid hormones.