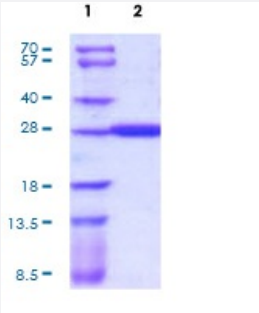
Bioactive Full-Length

GSTA4 (Human) Recombinant Protein

Catalog # P7941 Size 100 ug

Applications



Specification

Product Description	Human GSTA4 (O15217, 1 a.a. - 222 a.a.) full length recombinant protein with His tag expressed in *Escherichia coli*.
Sequence	MAARPKLHYPNGRGRMESVRWVLAAAGVEFDEEFLETKEQLYKLQDGNHLLFQQVPMVEIDGM KLVQTRSILHYIADKHNLFGKNLKERTLIDMYVEGTLDLLELLIMHPFLKPDDQQKEVVNMAQKAIIRY FPVFEKILRGHGQSFLVGNQLSLADVILLQTILALEEKIPNILSAFPFLQEYTVKLSNIPTIKRFLEPGS KKKPPPDEIYVRTVYNIFRP
Host	Escherichia coli
Theoretical MW (kDa)	28.3
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS-PAGE
Activity	Specific activity is > 4000 pmol/min/ug, and is defined as the amount of enzyme that conjugate 1.0 u mole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25°C.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In 20mM Tris-HCl pH 8.0 (20% glycerol, 100 mM NaCl, 2 mM DTT)

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Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — GSTA4

Entrez GeneID	2941
Protein Accession#	O15217
Gene Name	GSTA4
Gene Alias	DKFZp686D21185, GSTA4-4, GTA4
Gene Description	glutathione S-transferase alpha 4
Omim ID	605450
Gene Ontology	Hyperlink
Gene Summary	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct s upergene families. These enzymes are involved in cellular defense against toxic, carcinogenic, an d pharmacologically active electrophilic compounds. At present, eight distinct classes of the solub le cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, om ega, pi, sigma, theta and zeta. This gene encodes a glutathione S-tranferase belonging to the alp ha class. The alpha class genes, which are located in a cluster on chromosome 6, are highly relat ed and encode enzymes with glutathione peroxidase activity that function in the detoxification of li pid peroxidation products. Reactive electrophiles produced by oxidative metabolism have been li nked to a number of degenerative diseases including Parkinson's disease, Alzheimer's disease, cataract formation, and atherosclerosis. [provided by RefSeq
Other Designations	GST class-alpha|OTTHUMP00000016624|OTTHUMP00000016625|S-(hydroxyalkyl)glutathione l yase A4|glutathione S-alkyltransferase A4|glutathione S-aralkyltransferase A4|glutathione S-aryltr ansferase A4|glutathione S-transferase A4|glutathione transferase A4-4

Pathway

- Drug metabolism - cytochrome P450

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- Glutathione metabolism
- Metabolism of xenobiotics by cytochrome P450

Disease

- Adenocarcinoma
- Alzheimer disease
- Carcinoma
- Celiac Disease
- Cleft Lip
- Cleft Palate
- Cognition
- Colorectal Neoplasms
- Coronary Artery Disease
- Diabetes Complications
- Genetic Predisposition to Disease
- Genomic Instability
- Kidney Failure
- Lung carcinoma
- Lung Neoplasms
- Mesothelioma
- Neurodegenerative Diseases
- Pancreatic Neoplasms
- Parkinson disease
- Pleural Neoplasms
- Pulmonary Disease

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- Skin Neoplasms
- Small Cell Lung Carcinoma
- Urinary Bladder Neoplasms
- Werner syndrome

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