Recombinant Full Length Human GSTA4 Protein, C-Flag-tagged

Cat. No. GSTA4-2071HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GSTA4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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-tranferase 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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	25.5 kDa

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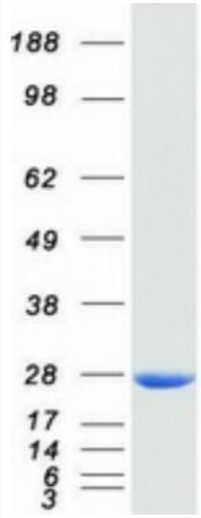
AA Sequence	MAARPKLHYPNGRGRMESVRWVLAAAGVEFDEEFLETKEQLYKLQDGNHLLFQQV PMVEIDGMKLVQTRS ILHYIADKHNLFGKNLKERTLIDMYVEGTLDLLELLIMHPFLKP DDQQKEVVNMAQKAIIRYFPVFEKIL RGHGQSFLVGNQLSLADVILLQTILALEEKIPN ILSAFPFLQEYTVKLSNIPTIKRFLEPGSKKKPPPDE IYVRTVYNIFRP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450
Full Length	Full L.

GENE INFORMATION

Gene Name	GSTA4 glutathione S-transferase alpha 4 [Homo sapiens (human)]
Official Symbol	GSTA4
Synonyms	GTA4; GSTA4-4

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Gene ID	2941
mRNA Refseq	NM_001512.4
Protein Refseq	NP_001503.1
MIM	605450
UniProt ID	O15217



Coomassie blue staining of purified GSTA4 protein.

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