

Active Recombinant Human GSTA1 Protein

Cat. No. GSTA1-104H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human GSTA1 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of a family of enzymes that function to add glutathione to target electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins, and products of oxidative stress. This action is an important step in detoxification of these compounds. This subfamily of enzymes has a particular role in protecting cells from reactive oxygen species and the products of peroxidation. Polymorphisms in this gene influence the ability of individuals to metabolize different drugs. This gene is located in a cluster of similar genes and pseudogenes on chromosome 6. Alternative splicing results in multiple transcript variants.
Bio-activity	GST Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 100 mM potassium phosphate buffer (pH 6.5) containing 1 mM reduced glutathione, at a protein concentration of 0.2 µg/ml, using a continuous spectrophotometric procedure) Substrate: 1-chloro-2,4-dinitrobenzene (CDNB) Vmax: 61 µmol/min/mg protein Km (CDNB): 0.81 mM(Km for reduced glutathione, based on average batch data, is approximately 0.15 mM)

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Usage	For laboratory (research) purposes only
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	Protein Concentration: 10 mg/ml
Storage Buffer	10 mM sodium phosphate (pH 7.4), 140 mM NaCl

GENE INFORMATION

Gene Name	GSTA1 glutathione S-transferase alpha 1 [Homo sapiens (human)]
Official Symbol	GSTA1
Synonyms	GSTA1; glutathione S-transferase alpha 1; glutathione S-transferase A1; 13-hydroperoxyoctadecadienoate peroxidase; GST HA subunit 1; GST class-alpha member 1; S-(hydroxyalkyl)glutathione lyase A1; androst-5-ene-3,17-dione isomerase; glutathione S-alkyltransferase A1; glutathione S-aryltransferase A1; glutathione S-transferase 2; glutathione S-transferase Ha subunit 1; testicular tissue protein Li 80
Gene ID	2938
mRNA Refseq	NM_145740
Protein Refseq	NP_665683
MIM	138359
UniProt ID	P08263

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