

Recombinant Human GSTA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GSTA1-3832H Lot. No. (See product label)

SPECIFICATION

Product Overview

GSTA1 MS Standard C13 and N15-labeled recombinant protein (NP_665683) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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.

Molecular Mass

25.6 kDa

AA Sequence

MAEKPKLHYFNARGRMESTRWLLAAAGVEFEEKFIKSAEDLDKLRNDGYLMFQQVP
MVEIDGMKLVQTRAILNYIASKYNLYGKDIKERALIDMYIEGIADLGEMILLPVCPPEE
KDAKLALIKEKIKNRYFPAFEKVLKSHGQDYLVGNKLSRADIHLVELLYYVEELDSSLI
SSFPLLKALKTRISNLPTVKKFLQPGSPRKPPMDEKSLEEARKIFRFTTRTRPLEQKLIS
EEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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; glutathione S-transferase A1; GST-epsilon; GST HA subunit 1; GST, class alpha, 1; GST class-alpha member 1; glutathione S-transferase 2; glutathione S-aryltransferase A1; glutathione S-alkyltransferase A1; S-(hydroxyalkyl)glutathione lyase A1; glutathione S-transferase Ha subunit 1; GST2; GTH1; GSTA1-1; MGC131939;
Gene ID	2938
mRNA Refseq	NM_145740
Protein Refseq	NP_665683
MIM	138359

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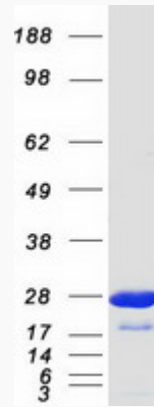
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UniProt ID

P08263

SDS-PAGE



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