

Product datasheet for PH300362

glutathione S transferase Omega 1 (GSTO1) (NM_004832) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GSTO1 MS Standard C13 and N15-labeled recombinant protein (NP_004823)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200362
Predicted MW:	27.6 kDa
Protein Sequence:	>RC200362 protein sequence Red=Cloning site Green=Tags(s) MSGESARSLGKGSAPPGVPEGSIRIYSMRFCPF AERTRLVLKAKGIRHEVININLKNKPEWFFKKNPFG LVPVLENSQGQLIYESAITCEYLDEAYPGKLLPDDPYEKACQKMILELFSKVP SLVGSFIRSQNKEDYA GLKEEFRKEFTKLEEVLTNKKTTFFGGNSISMIDYLIWPWFERLEAMKLNCEVDHTPKLKLWMAAMKEDP TVSALLTSEKDWQGFLELYLQNSPEACDYGL SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004823
RefSeq Size:	1017
RefSeq ORF:	723
Synonyms:	GSTO 1-1; GSTTLp28; HEL-S-21; P28; SPG-R
Locus ID:	9446
UniProt ID:	P78417 , V9HWG9



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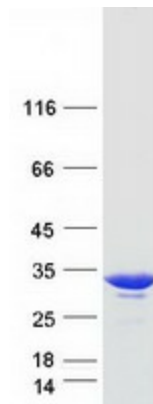
Cytogenetics: 10q25.1

Summary: The protein encoded by this gene is an omega class glutathione S-transferase (GST) with glutathione-dependent thiol transferase and dehydroascorbate reductase activities. GSTs are involved in the metabolism of xenobiotics and carcinogens. The encoded protein acts as a homodimer and is found in the cytoplasm. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450

Product images:



Coomassie blue staining of purified GSTO1 protein (Cat# [TP300362]). The protein was produced from HEK293T cells transfected with GSTO1 cDNA clone (Cat# [RC200362]) using MegaTran 2.0 (Cat# [TT210002]).