

Recombinant Human GSTO2, His-tagged

Cat. No. GSTO2-15855H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GSTO2 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-243aa
Description	Glutathione S-transferase omega 2, also known as GSTO2, belongs to the GST superfamily and may be involved in catalyzing the reaction of glutathione with a wide variety of organic compounds to form thioethers, a process that is essential for the metabolism and detoxification of a variety of xenobiotics and carcinogens. GSTO2 is related to GSTO1 and is expressed in a variety of tissues throughout the body where it functions to catalyze the conversion of RX and glutathione to HX and R-S-glutathione.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 40% glycerol
Molecular Mass	30.6 kDa (266aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGSDATR TLGKGSQPPG PVPEGLIRIY SMRFCPYSHR TRLVLKAKDI RHEVVNINLR NKPEWYYTKH PFGHIPVLET SQCQLIYESV IACEYLDDAY PGRKLFYDP YERARQKMLL ELFCCKVPHLT KECLVALRCG RECTNLKAAL RQEFSNLEEILEYQNTTFFG GTCISMIDYL

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	LWPWFERLDV YGILDCVSHT PALRLWISAM KWDPTVCALL MDKSIFQGFL NLYFQNNPNA FDFGLC
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	GSTO2 glutathione S-transferase omega 2 [Homo sapiens]
Official Symbol	GSTO2
Synonyms	GSTO2; glutathione S-transferase omega 2; glutathione S-transferase omega-2; GSTO-2; MMA(V) reductase; monomethylarsonic acid reductase; glutathione S-transferase omega 2-2; glutathione-S-transferase-like protein; bA127L20.1 (novel glutathione-S-transferase); glutathione-dependent dehydroascorbate reductase; GSTO 2-2; bA127L20.1;
Gene ID	119391
mRNA Refseq	NM_183239
Protein Refseq	NP_899062
MIM	612314

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UniProt ID	Q9H4Y5
Chromosome Location	10q25.1
Pathway	Biological oxidations, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolism, organism-specific biosystem;
Function	glutathione dehydrogenase (ascorbate) activity; glutathione transferase activity; glutathione transferase activity; methylarsonate reductase activity; oxidoreductase activity; transferase activity;

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