

## Recombinant Human GSTO2, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human GSTO2 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-243aa
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 40% glycerol
<b>Molecular Mass</b>	30.6 kDa (266aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMGSDATR TLGKGSQPPG PVPEGLIRIY SMRFCPYSHR TRLVLKAKDI RHEVVNINLR NKPEWYYTKH PFGHIPVLET SQCQLIYESV IACEYLDDAY PGRKLFYDP YERARQKMLL ELFCCKVPHLT KECLVALRCG RECTNLKAAL RQEFNSNLEEILEYQNTTFFG 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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<b>UniProt ID</b>	Q9H4Y5
<b>Chromosome Location</b>	10q25.1
<b>Pathway</b>	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;
<b>Function</b>	glutathione dehydrogenase (ascorbate) activity; glutathione transferase activity; glutathione transferase activity; methylarsonate reductase activity; oxidoreductase activity; transferase activity;

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