

Recombinant Human Glutathione S-Transferase Omega 2, His-tagged

Cat. No. GSTO2-1961H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanGSTO2 protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	GlutathioneS-transferase omega 2, also known as GSTO2, belongs to the GST superfamilyand may be involved in catalyzing the reaction of glutathione with a widevariety of organic compounds to form thioethers, a process that is essentialfor the metabolism and detoxification of a variety of xenobiotics andcarcinogens. GSTO2 is related to GSTO1 and is expressed in a variety oftissues throughout the body where it functions to catalyze the conversion ofRX and glutathione to HX and R-S-glutathione.
Form	Liquid. In 20mMTris-HCl buffer (pH 8.0) containing 0.1M NaCl, 40% glycerol.
Molecular Weight	30.6 kDa(266aa), confirmed by MALDI-TOF.
Purity	> 85%by SDS-PAGE
Concentration	0.25mg/ml (determined by Bradford assay)
Sequences of	MGSSHHHHHHSSGLVPRGSH MGSMMSGDATR TLGKGSQPPG PVPEGLIRIY

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aminoacids

SMRFCPYSHR TRLVLKAKDIRHEVVNINLR NKPEWYYTKHPFGHIPVLET
 SQCQLIYESV IACEYLDDAY PGRKLFPYDP YERARQKMLLELFCKVPHLT
 KECLVALRCG RECTNLKAAL RQEFNLEEI LEYQNTTFFG GTCISMIDYL
 LWPWFERLDVYGILDCVSHT PALRLWISAM KWDPTVCALL MDKSIFQGFL
 NLYFQNNPNA FDFGLC

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name [GSTO2 glutathioneS-transferase omega 2 \[Homo sapiens \]](#)

Official Symbol [GSTO2](#)

Synonyms

GSTO2; glutathione S-transferase omega 2;bA127L20.1; glutathione S-transferase omega-2; GSTO-2;glutathione-S-transferase-like protein; bA127L20.1 (novelglutathione-S-transferase); EC 2.5.1.18; OTTHUMP00000020440;OTTHUMP00000020441

Gene ID [119391](#)

mRNA Refseq [NM_183239](#)

Protein Refseq [NP_899062](#)

MIM [612314](#)

UniProt ID [Q9H4Y5](#)

Chromosome 10q25.1

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Location	
Pathway	Biological oxidations; Drugmetabolism-cytochrome P450; Glutathione conjugation; Metabolism; Metabolismof vitamins and cofactors; Metabolism of water-soluble vitamins andcofactors; Metabolism of xenobiotics by cytochrome P450; Phase IIconjugation; Vitamin C (ascorbate) metabolism
Function	glutathione dehydrogenase (ascorbate)activity; glutathione transferase activity; oxidoreductase activity;transferase activity

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