## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

1-243aa
UniProt No.
Q9H4Y5
NCBI Accession No.
NP_899062

## Alternative Names

Glutathione S-transferase omega 2, bA127L20.1

## PRODUCT SPECIFICATION

## Molecular Weight

30.6 kDa (266aa) confirmed by MALDI-TOF

## Concentration

$0.25 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris- HCl buffer (pH 8.5) containing $0.2 \mathrm{M} \mathrm{NaCl}, 1 \mathrm{mM} \mathrm{DTT} 40 \$,$% glycerol$
Purity
> 85\% by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20 C to -80 C . Avoid repeated freezing and thawing cycles.

## BACKGROUND

## 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. Recombinant human GSTO2 protein, fused to Histag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Recombinant human Glutathione S-transferase omega 2/GSTO2 protein
Catalog Number: ATGP1515

## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMSGDATR TLGKGSQPPG PVPEGLIRIY SMRFCPYSHR TRLVLKAKDI RHEVVNINLR NKPEWYYTKH PFGHIPVLET SQCQLIYESV IACEYLDDAY PGRKLFPYDP YERARQKMLL ELFCKVPHLT KECLVALRCG RECTNLKAAL RQEFSNLEEI LEYQNTTFFG GTCISMIDYL LWPWFERLDV YGILDCVSHT PALRLWISAM KWDPTVCALL MDKSIFQGFL NLYFQNNPNA FDFGLC

## General References

Chariyalertsak S., et al. (2009) Tumori. 95:739-743.
Andonova I E., et al. (2010) Treat. 121: 497-52.

DATA

SDS-PAGE
(kDa)


15\% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

