

Recombinant human Glutathione S-transferase omega 2/GSTO2 protein

Catalog Number: ATGP1515

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

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 0.2M NaCl, 1mM DTT, 40% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. 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 His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

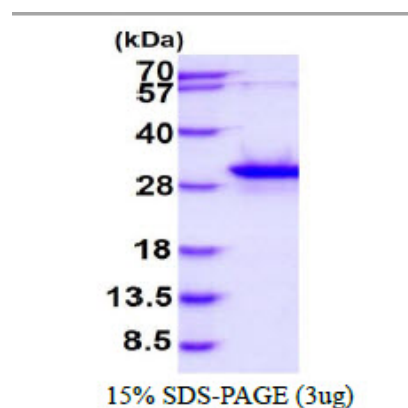
MGSSHHHHHH SSGLVPRGSH MGSMMSGDATR TLGKGSQPPG PVPEGLIRIY SMRFCPYSHR TRLVLKAKDI RHEVVNINLR
NKPEWYYTKH PFGHIPVLET SQQLIYESV IACEYLDDAY PGRKLFYDP YERARQKMLL ELFCVKPHLT KECLVALRCG
RECTNLKAAL RQEFNLEEI LEYQNTTFFG GTCISMIDYL LWPWFERLDV YGILDCVSHT PALRLWISAM KWDPTVCALL
MDKSIFQGFL NLYFQNNPNA FDFGLC

General References

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

DATA

SDS-PAGE



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