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# Recombinant human Glutathione S-transferase theta 2/GSTT2 protein

Catalog Number: ATGP1464

#### PRODUCT INFORMATION

# **Expression system**

E.coli

#### **Domain**

1-244aa

#### **UniProt No.**

P0CG29

#### **NCBI Accession No.**

NP 000845

#### **Alternative Names**

Glutathione S-transferase theta 2, GSTT2B

## PRODUCT SPECIFICATION

### **Molecular Weight**

29.6 kDa (264aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT

#### **Purity**

> 95% 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 theta 2, also known as GSTT2, is member of the glutathione s-transferase (GST) family of proteins. There are eight families of GST proteins, namely alpha, kappa, mu, omega, pi, sigma, theta and zeta, each of which is composed of proteins that have a variety of functions throughout the cell. The theta class members GSTT1 and GSTT2 share 55% amino acid sequence identity and both are thought to have an important role in human carcinogenesis. The theta genes have a similar structure, being composed of five exons with identical exon/intron boundaries. Recombinant human GSTT2 protein, fused to His-tag at N-terminus, was



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expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

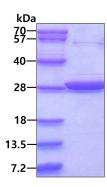
<MGSSHHHHHH SSGLVPRGSH> MGLELFLDLV SQPSRAVYIF AKKNGIPLEL RTVDLVKGQH KSKEFLQINS LGKLPTLKDG DFILTESSAI LIYLSCKYQT PDHWYPSDLQ ARARVHEYLG WHADCIRGTF GIPLWVQVLG PLIGVQVPEE KVERNRTAMD QALQWLEDKF LGDRPFLAGQ QVTLADLMAL EELMQPVALG YELFEGRPRL AAWRGRVEAF LGAELCQEAH SIILSILEQA AKKTLPTPSP EAYQAMLLRI ARIP

## **General References**

Tan KL., et al. (1995) Genomics. 25(2):381-7. Hussey AJ., et al. (1992) Biochem J. 286:929-35.

# **DATA**

#### **SDS-PAGE**



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

