

# Recombinant human Glutathione S-transferase kappa 1/GSTK1 protein

Catalog Number: ATGP0464

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-226aa

### UniProt No.

Q9Y2Q3

### NCBI Accession No.

NP\_057001

### Alternative Names

Glutathione S transferase subunit 13, Glutathione S-transferase kappa 1, Glutathione S-transferase kappa 1 EC 2.5.1.18, GST, GST class kappa, GST13, GST13-13, GSTK1-1, hGSTK1

## PRODUCT SPECIFICATION

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### Molecular Weight

25.5 kDa (226aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

Non-Tagged

### 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

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### Description

GSTK1 is a member of the kappa class of the glutathione transferase superfamily of enzymes that function in cellular detoxification process. This protein catalyzes the conjugation of the thiol group of glutathione (GSH) to the electrophilic groups of a wide range of hydrophobic substrates, leading to an easier removal of the latter from the cells. Recombinant GSTK1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

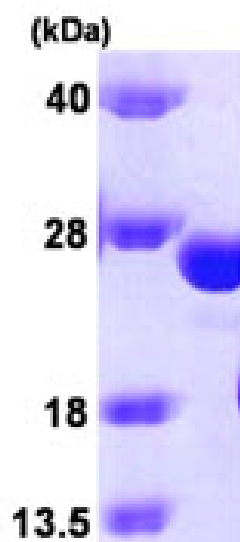
MGPLPRTVEL FYDVLSPYSW LGFEILCRYQ NIWNINLQLR PSLITGIMKD SGNKPPGLLP RKGLYMANDL KLLRHHLQIP  
IHFPKDFLSV MLEKGSLSAM RFLTAVNLEH PEMLEKASRE LWMRVWSRNE DITEPQSILA AAEKAGMSAE QAQGLLEKIA  
TPKVKNQLKE TTEAACRYGA FGLPITVAHV DGQTHMLFGS DRMELLAHLL GEKWMGPIPP AVNARL

## General References

Robinson A., et al. (2004) Biochem J. 379(3):541-52.  
Morel F., et al. (2004) J Biol Chem. 279(16):16246-53.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)