

Human GSTK1 Protein

Catalog Number: 14291-HNAE



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

GST; GST13; GST13-13; GSTK1-1; hGSTK1; 0610025119Rik; AW260476; DsbA-L

Protein Construction:

A DNA sequence encoding the mature form of human GSTK1 (Q9Y2Q3-1) (Gly2-Leu226) was expressed with a N-terminal Met.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human GSTK1 consists of 226 amino acids and predicts a molecular mass of 25.5 KDa. It migrates as an approximately 25 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 10% glycerol, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

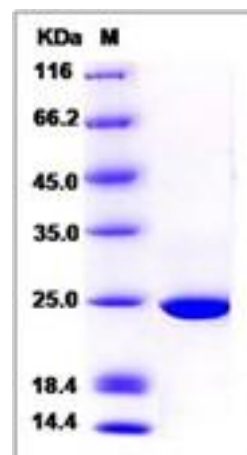
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

GSTK1 gene encodes a member of the kappa class of the glutathione transferase superfamily of enzymes that function in cellular detoxification. Glutathione S-transferases (GSTs) are a family of enzymes that catalyze a variety of reactions in both eukaryotes and prokaryotes. They catalyze the conjugation of reduced glutathione with potentially toxic, xenobiotic substrates, thus aiding excretion from the body. GSTK1 (glutathione S-transferase kappa 1) is localized to the peroxisome and catalyzes the conjugation of glutathione to a wide range of hydrophobic substrates facilitating the removal of these compounds from cells. GSTK1 functions in cellular detoxification.

References

1. Zhang QH, *et al.* (2001) Cloning and functional analysis of cDNAs with open reading frames for 300 previously undefined genes expressed in CD34+ hematopoietic stem/progenitor cells. *Genome Res.* 10(10):1546-60.
2. Morel F, *et al.* (2004) Gene and protein characterization of the human glutathione S-transferase kappa and evidence for a peroxisomal localization. *J Biol Chem.* 279(16): 16246-53.
3. Jowsey IR, *et al.* (2003) Biochemical and genetic characterization of a murine class Kappa glutathione S-transferase. *Biochem J.* 373(Pt 2):559-69.

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