

Recombinant Human Glutathione S-transferase Kappa 1

Cat. No. GSTK1-495H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GSTK1 protein was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques, 25.5 kDa (226aa).
Species	Human
Source	<i>E. coli</i>
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.
Sequences Of Amino Acids	MGPLPRTVEL FYDVLSPYSW LGFEILCRYQ NIWNINLQLR PSLITGIMKD SGNKPPGLLP RKGLYMANDL KLLRHHLQIP IHFPKDFLSV MLEKGSLSAM RFLTAVNLEH PEMLEKASRE LWMRVWSRNE DITEPQSILA AAEKAGMSAE QAQGLLEKIA TPKVKNQLKE TTEAACRYGA FGLPITVAHV DGQTHMLFGS DRMELLAHLL GEKWMGPIPP AVNARL.
Formulation	Liquid. In 20mM Tris buffer(pH 8.0) containing 10% glycerol 1mM DTT.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolism of xenobiotics by cytochrome P450; Peroxisome

GENE INFORMATION

Gene Name [GSTK1 glutathione S-transferase kappa 1 \[Homo sapiens \]](#)

Synonyms GSTK1; glutathione S-transferase kappa 1; GST; GST13; GSTK1-1; GST13-13; hGSTK1; GST 13-13; GST class-kappa; glutathione S-transferase k1; glutathione S-transferase subunit 13 homolog; EC 2.5.1.18; Glutathione S-transferase subunit 13

Gene ID [373156](#)

mRNA Refseq [NM_001143679](#)

Protein Refseq [NP_001137151](#)

MIM [602321](#)

UniProt ID [Q9Y2Q3](#)

Chromosome Location 7q35

Function glutathione transferase activity; identical protein binding; protein binding; protein disulfide oxidoreductase activity; transferase activity

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