Glutathione S-transferase kappa 1/GSTK1 Protein, Human (GST)

Cat. No.:	HY-P700381
Synonyms:	Glutathione S-transferase kappa 1; GST 13-13; GSTK1-1; Glutathione S-transferase subunit 13
Species:	Human
Source:	E. coli
Accession:	Q9Y2Q3 (G2-L226)
Gene ID:	373156
Molecular Weight:	52.4 kDa

PROPERTIES

AA Sequence	G P L P R T V E L F Y D V L S P Y S W L G F E I L C R Y Q N I W N I N L Q L R P S L I T G I M K D S G N K P P G L L P R K G L Y M A N D L K L L R H H L Q I P I H F P K D F L S V M L E K G S L S A M R F L T A V N L E H P E M L E K A S R E L W M R V W S R N E D I T E P Q S I L A A A E K A G M S A E Q A Q G L L E K I A T P K V K N Q L K E T T E A A C R Y G A F G L P I T V A H V D G Q T H M L F G S D R M E L L A H L L G E K W M G P I P P A V N A R L
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	GSTK1 (Glutathione S-transferase kappa 1) is an enzyme that belongs to the glutathione S-transferase family and is involved in the catalysis of glutathione conjugation to both exogenous and endogenous compounds. Its significant glutathione conjugating activity is particularly notable with the model substrate 1-chloro-2,4-dinitrobenzene (CDNB). This enzymatic activity suggests a role for GSTK1 in detoxification processes, where it facilitates the conjugation of glutathione to various xenobiotic and endogenous compounds, aiding in their elimination from the cell.

Caution: Product has not been fully validated for medical applications. For research use only.

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