

GSTK1 Protein, Human, Recombinant (GST)

General Information

Synonyms:	GSTK1-1 (hGSTK1); GST class-kappa; GST 13-13; GSTK1; Glutathione S-transferase kappa 1; Glutathione S-transferase subunit 13
Protein Construction:	2-226 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9Y2Q3
Molecular Weight:	52.4 kDa (predicted)
AA Sequence:	GPLPRTVELFYDVLSPYSWLGFELCRYQNIWNINLQLRPSLITGIMKDSGNKPPGLLPRKGLYMANDLKLLRH HLQIPIHFPKDFLSVMLEKGSLSAMRFLTAVNLEHPMLEKASRELWMRVWSRNEDITEPQSILAAAEKAGMS AEQAQGLLEKIATPKVKNQLKETTEAACRYGAFGLPITVAHVVDGQTHMLFGSDRMELLAHLLGEKWMGPIPP AVNARL

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized HTR1B at 5 µg/mL can bind human GSTK1, the EC50 of human GSTK1 protein is 159.40-218.50 ng/mL.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Tris/PBS-based buffer

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Significant glutathione conjugating activity is found only with the model substrate, 1-chloro-2,4-dinitrobenzene (CDNB).

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