

GST T1-1 active protein

GST T1-1, Recombinant Human

CATALOG #
AAA71852

HOST
Recombinant 6x His-tagged protein expressed in E Coli

PRODUCT SYNONYMS

GST T1-1; Recombinant Human; Recombinant Human GST T1-1; GST T1-1 active protein

PRODUCT SPECIFICATIONS

Host	Recombinant 6x His-tagged protein expressed in E Coli
Purity/Purification	>= 95% as assessed by inspection on a Coomassie Blue-stained SDS-PAGE gel.
Concentration	1.95 mg/mL total protein using the Bradford protein assay with BSA as a standard. (varies by lot)
Sequence Length	240
Storage Buffer	50 mM Tris-HCl (pH 7.5), 50 mM NaCl, 1 mM DTT, 1 mM EDTA and 50% glycerol
Procedural Notes	This purified product exhibits moderate enzymatic activity for Cumene hydroperoxide, the substrate that is most commonly used to assess the glutathione peroxidase activity of soluble GSTs. However, as is suspected for GST activity analysis using synthetic and natural substrates, low concentrations (high dilutions) of the enzyme may result in lower activity values. In contrast, initial velocities are much higher for more concentrated levels of enzyme but the rate decreases rapidly. Therefore, activity towards GST substrates and these considerations provide guidance when assaying this product under low concentrations or when using substrates other than Cumene hydroperoxide
Specific Activity	8.8 Units/mg as assayed by the spectrophotometric determination of NADPH oxidation coupled to the glutathione peroxidase activity of GST T1-1 on cumene hydroperoxide (1.5 mM) in the presence of reduced glutathione (1 mM) in 100 mM NaPO ₄ (pH 7.0) at room temperature.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	At -20 degree C; AVOID MULTIPLE FREEZE-THAW CYCLES

ADDITIONAL INFORMATION

References	Pemble S., et al., Biochem. J., 300 (Pt 1):271-276 (1994)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16923707
NCBI GeneID	2952
UniProt Accession #	P30711 ; O00226 ; Q5TZY2 ; Q6IC69 ; Q969K8 ; Q96IY3
Molecular Weight	~25 kDa
NCBI Official Full Name	glutathione transferase T1-1
NCBI Official Synonym Full Names	glutathione S-transferase theta 1
NCBI Official Symbol	GSTT1
NCBI Protein Information	glutathione S-transferase theta-1; GST class-theta-1; glutathione transferase T1-1
UniProt Protein Name	Glutathione S-transferase theta-1

UniProt Gene Name	GSTT1
UniProt Entry Name	GSTT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/recombinant-6x-his-tagged-protein-expressed-in-e-coli-active-protein/gst-t1-1/71852>