

Glutathione S-Transferase Alpha 1 Active Protein | GSTA1 active protein

Recombinant Human Glutathione S-Transferase Alpha 1

CATALOG # AAA38702	HOST E Coli
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PRODUCT SYNONYMS

Glutathione S-Transferase Alpha 1; Recombinant Human Glutathione S-Transferase Alpha 1; GSTA1 Human; Glutathione S-Transferase Alpha-1 Human Recombinant; GST2; GSTA1-1; GTH1; GSTA-1; GSTAI; GSTA-I; EC 2.5.1.18; Glutathione S-transferase A1; GST HA subunit 1; GST-epsilon; GST class-alpha member 1; GSTA1; MGC131939; GSTA1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	The GSTA1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol. Sterile Filtered colorless solution.
Sequence	MAEKPKLHYF NARGRMESTR WLLAAAGVEF EEKFIKSAED LDKLRNDGYL MFQQVPMVEI DGMKLVQTRA ILNYIASKYN LYGKDIKERA LIDMYIEGIA DLGEMILLLP VCPPEEKDAK LALIKEKIKN RYFPAFEKVL KSHGQDYLVG NKLSRADIHL Vellyyveel DSSLISSFPL LKALKTRISN LPTVKKFLQP GSPRKPPMDE KSLEEARKIF RF
Sequence Length	222
Biological Activity	Specific activity is 5-8 units/mg, and is defined as the amount of enzyme that conjugate 1.0 u mole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25 degree C.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for GSTA1 active protein	Description: GSTA1 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 222 amino acids (1-222 a.a.) and having a molecular mass of 25.6 kDa. The GSTA1 is purified by proprietary chromatographic techniques. Introduction: Membrane-bound & Cytosolic forms of GST are encoded by 2 separate supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. There are 8 different classes of soluble cytoplasmic mammalian GST: alpha, kappa, mu, omega, pi, sigma, theta and zeta. The GSTA1 is found in a cluster mapped to chromosome 6, and is highly expressed in the liver. GSTA1 protects the cells from reactive oxygen species.
Product Categories/Family for GSTA1 active protein	Enzymes; Transferase

NCBI AND UNIPROT INFORMATION

NCBI GI #	22091454
NCBI GeneID	2938
NCBI Accession #	NP_665683.1

NCBI GenBank Nucleotide #	NM_145740.3
UniProt Accession #	P08263 ; Q14750 ; Q5GHF8 ; Q5SZC1
Molecular Weight	25,631 Da
NCBI Official Full Name	glutathione S-transferase A1
NCBI Official Synonym Full Names	glutathione S-transferase alpha 1
NCBI Official Symbol	GSTA1
NCBI Official Synonym Symbols	GST2; GTH1; GSTA1-1
NCBI Protein Information	glutathione S-transferase A1; GST HA subunit 1; GST class-alpha member 1; GST, class alpha, 1; GST-epsilon; S-(hydroxyalkyl)glutathione lyase A1; glutathione S-alkyltransferase A1; glutathione S-aryltransferase A1; glutathione S-transferase 2; glutathione S-transferase Ha subunit 1
UniProt Protein Name	Glutathione S-transferase A1
UniProt Gene Name	GSTA1
UniProt Entry Name	GSTA1_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/e-coli-gsta1-active-protein/glutathione-s-transferase-alpha-1/38702>