

GSTA1 active protein

GSTA1, 1-222aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA48584	HOST E Coli	APPLICATIONS SDS-Page
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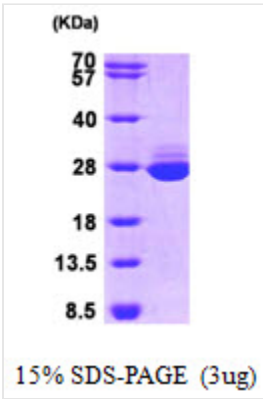
PRODUCT SYNONYMS

GSTA1; 1-222aa; Human; E Coli (Bioactivity Validated); Glutathione S-transferase alpha 1; GST2; GSTA1-1; GTH1; Glutathione S-transferase alpha 1 Glutathione S transferase A1; GST epsilon; GSTA1 1; HA subunit 1.; GSTA1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 1mM DTT 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MAEKPKLHYF NARGRMESTR WLLAAAGVEF EEKFIKSAED LDKLRNDGYL MFQQVPMVEI DGMKLVQTRA ILNYIASKYN LYGKDIKERA LIDMYIEGIA DLGEMILLP VCPPEEKDAK LALIKEKIKN RYFPAFEKVL KSHGQDYLVG NKLSRADIHL VELLYYVEEL DSSLISSFPL LKALKTRISN LPTVKKFLQP GSPRKPPMDE KSLEEARKIF RF
Sequence Length	1-222 aa
Applicable Applications for GSTA1 active protein	Enzyme Activity, SDS-PAGE
Domain	1-222aa
Antigen Species	Human
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Biological Activity	Specific activity is > 35,000 pmol/min/ug, 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 25C.
Tag	Non-Tagged
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	Ships on dry ice. Can be stored at 2-8°C degree C short term 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

Related Product Information for GSTA1 active protein	GSTA1, also known as Glutathione S-transferase alpha 1, belongs to a glutathione S-transferase alpha class and is the most abundantly expressed in liver. This protein functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. Recombinant human GSTA1 protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for GSTA1 active protein	Enzymes & Proteases
References	Rossi D., et al. (2009) Leukemia. 23 (6):1118-26. ; Hou L., et al. (2007) J Biol Chem. 282 (32):23264-74.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	22091454
NCBI GeneID	2938
NCBI Accession #	NP_665683
NCBI GenBank Nucleotide #	NM_145740.4
UniProt Accession #	P08263; Q14750; Q5GHF8; Q5SZC1
Molecular Weight	25.6 kDa (222aa), confirmed by MALDI-TOF.
NCBI Official Full Name	glutathione S-transferase A1 isoform 1
NCBI Official Synonym Full Names	glutathione S-transferase alpha 1
NCBI Official Symbol	GSTA1
NCBI Official Synonym Symbols	GST2; GTH1; GSTA1-1; GST-epsilon
NCBI Protein Information	glutathione S-transferase A1
UniProt Protein Name	Glutathione S-transferase A1
UniProt Gene Name	GSTA1

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.