

Glutathione S-Transferase Alpha 4 Active Protein | GSTA4 active protein

Recombinant Human Glutathione S-Transferase Alpha 4, Active

CATALOG # AAA39148	HOST E Coli
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PRODUCT SYNONYMS

Glutathione S-Transferase Alpha 4; Recombinant Human Glutathione S-Transferase Alpha 4; Active; GSTA4 Human; Glutathione S-transferase A4; GST class-alpha member 4; Glutathione S-transferase A4-4; GSTA4; GSTA4-4; Glutathione S-Transferase Alpha 4 Human Recombinant; GSTA4 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The GSTA4 solution (1mg/ml) contains 20mM Tris-HCl buffer, pH8.0, 20% glycerol, 2mM DTT and 100mM NaCl.
Sequence	MGSSHHH HHHSSGLVPR GSHMGSHMAARPKLHY PNGRGRMESV RWVLAAGVE FDEEFLETKE QLYKLQDGNH LLFQQVPMVE IDGMKLVQTR SILHYIADKH NLFGKNLKER TLIDMYVEGT LDLELLIMH PFLKPDDQQK EVVNMAQKAI IRYFPVFEKI LRGHGQSFLV GNQLSLADVI LLQTLALEE KIPNLSAFP FLQEYTVKLS NIPTIKRFLE PGSKKKPPPD EIYVRTVYNI FRP
Sequence Length	222
Physical Appearance	Sterile filtered colorless solution.
Biological Activity	Specific activity is > 4, 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.
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 GSTA4 active protein	Description: GSTA4 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 246 amino acids (1-222) and having a molecular mass of 28.3kDa. GSTA4 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Introduction: Glutathione S-transferase A4 (GSTA4) is a member of the GST superfamily. The GSTA4 enzyme is involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. GSTA4 shows an especially high activity with reactive carbonyl compounds such as alk-2-enals. GSTA4 is extremely effective in catalyzing the conjugate addition of reduced glutathione to 4-hydroxynonenal, which is an important product of peroxidative degradation of arachidonic acid and a frequently used biomarker for oxidative damage in tissue. The GSTA4 enzyme is expressed at a high level in the brain, placenta, and skeletal muscle and much lower in the lung and liver.
Product Categories/Family for GSTA4 active protein	Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504173
NCBI GeneID	2941
NCBI Accession #	NP_001503.1

NCBI GenBank Nucleotide #	NM_001512.3
UniProt Accession #	O15217 ; Q5T7Q8 ; Q6P4G1 ; Q9BX18 ; Q9H414 ; B2RD15
NCBI Official Full Name	glutathione S-transferase A4
NCBI Official Synonym Full Names	glutathione S-transferase alpha 4
NCBI Official Symbol	GSTA4
NCBI Official Synonym Symbols	GTA4; GSTA4-4
NCBI Protein Information	glutathione S-transferase A4
UniProt Protein Name	Glutathione S-transferase A4
UniProt Gene Name	GSTA4

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-gsta4-active-protein/glutathione-s-transferase-alpha-4/39148>