GSTA1 Protein, Human (HEK293, His, solution)

Cat. No.:	HY-P75153
Synonyms:	Glutathione S-transferase A1; GST-epsilon; GSTA1-1; GTH1; GSTA1
Species:	Human
Source:	HEK293
Accession:	P08263 (M1-F222)
Gene ID:	2938
Molecular Weight:	Approximately 26 kDa

PROPERTIES

AA Sequence	M A E K P K L H Y F N A R G R M E S T R W L L A A A G V E F E E K F I K S A E D L D K L R N D G Y L M F Q Q V P M V E I D G M K L V Q T R A I L N Y I A S K Y N L Y G K D I K E R A L I D M Y I E G I A D L G E M I L L L P V C P P E E K D A K L A L I K E K I K N R Y F P A F E K V L K S H G Q D Y L V G N K L S R A D I H L V E L L Y Y V E E L D S S L I S S F P L L K A L K T R I S N L P T V K K F L Q P G S P R K P P M D E K S L E E A R K I F R F
Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	The GSTA1 Protein serves as a glutathione S-transferase, catalyzing the nucleophilic attack of the sulfur atom of glutathione on the electrophilic groups of a broad spectrum of both exogenous and endogenous compounds (Probable). This enzymatic activity includes the formation of glutathione conjugates for prostaglandin A2 (PGA2) and prostaglandin J2 (PGJ2). Additionally, GSTA1 plays a role in hormone biosynthesis by catalyzing the isomerization of D5-androstene-3,17-dione (AD) into D4-androstene-3,17-dione. Notably, its glutathione-dependent peroxidase activity extends to the metabolism of oxidized linoleic acid, specifically targeting the fatty acid hydroperoxide (13S)-hydroperoxy-(9Z,11E)-octadecadienoate/13-HPODE. The diverse enzymatic functions of GSTA1 underscore its involvement in crucial cellular processes, from

	detoxification reactions to hormone biosynthesis and the metabolism of oxidized lipids.

Caution: Product has not been fully validated for medical applications. For research use only.

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