
Product Data Sheet

Product Name: GSTO2 Human
 Cat. No.: GP21753
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutathione S-transferase omega-2; GSTO-2; Glutathione S-transferase omega 2-2; GSTO 2-2; Glutathione-dependent dehydroascorbate reductase; Monomethylarsonic acid reductase; MMA(V) reductase; GSTO2; bA127L20.1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMG DATR TLGKGSQPPG PVPEGLIRIY SMRFCPYSHR TRLVLKAKDI RHEVVNINLR NKPEWYYTKH PFGHIPVLET SQCQLIYESV IACEYLDDAY PGRKLFYDP YERARQKMLL ELFCKVPHLT KECLVALRCG RECTNLKAAL RQEFNLEEI LEYQNTTFFG GTCISMIDYL LWPWFERLDV YGILDVCSHT PALRLWISAM KWDPTVCALL MDKSIFQGFL NLYFQNNPNA FDFGLC.		
Formulation	The GSTO2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 40% glycerol.		

Introduction

Glutathione S-transferase omega 2 (GSTO2) is a member of the GST superfamily. GSTO2 is involved in catalyzing the reaction of glutathione with a broad range of organic compounds to form thioethers, a process which is vital for the metabolism and detoxification of a variety of xenobiotics and carcinogens. GSTO2 displays glutathione-dependent thiol transferase activity. GSTO2 has a high dehydroascorbate reductase activity and may be a factor in the recycling of ascorbic acid. GSTO2 also participates in the biotransformation of inorganic arsenic and reduces monomethylarsonic acid (MMA). GSTO2 is expressed in an array of tissues, including the liver, kidney, skeletal muscle and prostate, while the strongest expression is seen in the testis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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.

Background

GSTO2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 266 amino acids (1-243) and having a molecular mass of 30.6kDa. GSTO2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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