www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

GSTO2 Human

Catalog #:ENPS-612

For research use only.

Description: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.

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.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSMSGDATR TLGKGSQPPG PVPEGLIRIY SMRFCPYSHR TRLVLKAKDI RHEVVNINLR NKPEWYYTKH PFGHIPVLET SQCQLIYESV IACEYLDDAY PGRKLFPYDP YERARQKMLL ELFCKVPHLT KECLVALRCG RECTNLKAAL RQEFSNLEEI LEYQNTTFFG GTCISMIDYL LWPWFERLDV YGILDCVSHT PALRLWISAM KW

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:
The GSTO2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 40% glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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