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32-6784: GSTA1 Mouse

Application : Functional Assay

Alternative Name : Glutathione S-transferase A1, GST class-alpha member 1, Glutathione S-transferase Ya , Glutathione S-transferase Ya1.

Description

Source: Escherichia Coli.
Sterile Filtered colorless solution.
Membrane-bound & Cytosolic forms of GST are encoded by 2 separate supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. There are 8 different classes of soluble cytoplasmic mammalian GST: alpha, kappa, mu, omega, pi, sigma, theta and zeta. The GSTA1 is found in a cluster mapped to chromosome 6, and is highly expressed in the liver. GSTA1 protects the cells from reactive oxygen species.
GSTA1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 246 amino acids (1-223 a.a) and having a molecular mass of 28kDa.GSTA1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 5 µg / 20 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : GSTA1 protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.

Storage condition : 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.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMAGKPVL HYFNARGRME CIRWLLAAAG VEFEEKFIQS PEDLEKLKKD GNLMFDQVPM VEIDGMKLAQ TRAILNYIAT KYDLYGKDMK ERALIDMYSE GILDLTEMIG QLVLCPPDQR EAKTALAKDR TKNRYLPAFE KVLKSHGQDY LVGNRLTRVD IHLLEVLLYV EEFDASLLTP FPLLKAFKSR ISSLPNVKKF LQPGSQRKPP MDAKQIQEAR KAFKIQ.

Application Note

The specific activity is defined as the amount of enzyme that conjugate 1.0 pmole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25C and is > 4,000 pmol/min/ug.

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