
Product Data Sheet

Product Name: GSTA1 Mouse
 Cat. No.: GP21738
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutathione S-transferase A1; GST class-alpha member 1; Glutathione S-transferase Ya ; Glutathione S-transferase Ya1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGKPV LHYFNARGRME CIRWLLAAAG VEFEEKFIQS PEDLEKLLKDG NLMFDQVPM VEIDGMKLAQ TRAILNYIAT KYDLYGKDMK ERALIDMYSE GILD LTEMIG QLVLCPPDQREAKTALAKDR TKNRYLP AFE KVLKSHGQDY LVGNRLTRVD IHLLEVL LYV EEFDASLLTP FPLLKAFKSRIS SLPNVK KF LQPGSQRKPP MDAKQIQEAR KAFKIQ.		
Formulation	GSTA1 protein solution (1mg/ml) containing Phosphatebuffered saline (pH7.4), 10% glycerol and 1mM DTT.		

Introduction

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.

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.

Background

GSTA1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

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

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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.

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