
Product Data Sheet

Product Name: GSTM1 Human, Sf9

Cat. No.: GP21743

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GST1; GTH4; GTM1; GSTM1-1; MGC26563; GSTM1a-1a; GSTM1b-1b; GSTM1; Glutathione S-transferase Mu 1; GST class-mu 1; Glutathione S-transferase GT8.7; pmGT10; GST 1-1.		
Amino Acid Sequence	ADPMPMILGY WDIRGLAHAI RLLLEYTDSS YEEKKYTMGD APDYDRSQWL NEKFKLGLDF PNLPLYLIDGA HKITQSNAIL CYIARKHNLC GETEEEEKIRV DILENQTMDN HMQLGMICYN PEFEKCLKPKY LEELPEKCLKL YSEFLGKRPW FAGNKITFVD FLVYDVLDLH RIFEPKCLDA FPNLKDIFISR FEGLEKISAY MKSSRFLPRP VFSKMAVWGN KHHHHHH.		
Formulation	GSTM1 protein solution (0.5mg/ml) contains 40% glycerol, 0.2M NaCl, 2mM DTT and 0.1mM PMSF.		

Introduction

Cytosolic and membrane-bound types of GST are encoded by 2 different supergene families. There are 8 classes of the soluble cytoplasmic mammalian GST: alpha, kappa, mu, omega, pi, sigma, theta and zeta. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are arranged in a gene cluster on chromosome 1p13.3 and are highly polymorphic. These genetic differences can change an individual's resistance to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Null mutations of this class mu gene have been linked with the rise in a number of cancers.

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

GSTM1 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain (1-218a.a.) fused to a 9 aa His Tag at C-terminus containing 227 amino acids and having a molecular mass of 26.8kDa. GSTM1 shows multiple bands between 28-40kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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