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## Product Data Sheet

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Product Name: GSTM4 Human

Cat. No.: GP21748

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutathione S-transferase Mu 4; EC=2.5.1.18; GST class-mu 4; GST-Mu2; GSTM4-4; GSTM4; GTM4; GSTM4-4; MGC9247; MGC131945.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSMTLGYWDI RGLAHAIRLL LEYTDSSYEE KKYTMGDAPD YDRSQWLNEK FKLGLDFPNL PYLIDGAHKI TQSNAILCYI ARKHNLCGET EEEKIRVDIL ENQAMDVSNQ LARVCYSPDF EKLKPEYLEE LPTMMQHFSQ FLGKRPWFVG DKITFVDFLA YDVLDLHRIF EPNCLDAFPN LKDFISRFEG LEKISAYMKS SRFLPKPLYT RVAVWGNK.		
Formulation	GSTM4 Human solution containing 20mM Tris-HCl pH-8, 1mM DTT, 0.05M NaCl & 10% glycerol.		

**Introduction**

GSTM4 is part of the glutathione s-transferase (GST) family of proteins. There are eight families of GST proteins, namely alpha, kappa, mu, omega, pi, sigma, theta and zeta, each of which is composed of proteins that have a variety of functions throughout the cell. 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.

**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**

GSTM4 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 238 amino acids (1-218 a.a.) and having a molecular mass of 27.7 kDa.

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

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The GSTM4 is fused to a 20 amino acids His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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