

## 32-2409: mGSTM1 His Recombinant Protein

**Alternative Name :** 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.

### Description

Source : Escherichia Coli. GSTM1 Mouse Recombinant 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 28.1kDa. The GTM1 is fused to a 20 amino acid His-Tag at N-Terminus and purified by proprietary chromatographic techniques. 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.

### Product Info

**Amount :** 25 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** The GSTM1 solution contains 20 mM Tris-HCl buffer ( pH8.0), 1mM DTT and 10% glycerol  
**Storage condition :** GSTM1 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MPMILGYWNV RGLTHPIRML LEYTDSSYDE KRYTMGDAPD  
FDRSQWLNEK FKLGLDFPNL PYLIDGSHKI TQSNAILRYL ARKHHLDGET EEERIRADIV ENQVMDTRMQ  
LIMLCYNPDF EKQKPEFLKT IPEKMKLYSE FLGKRPWFAG DKVTYVDFLA YDILDQYRMF EPKCLDAFPN  
LRDFLARFEG LKKISAYMKS SRYIATPIFS KMAHWSNK.

### Application Note

Specific activity is < 11 units/mg, and is defined as the amount of enzyme that conjugate 1.0 u mole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25C.

