

## 32-2406: GSTM1 Recombinant Protein

**Alternative Name :** GST1,GSTM1-1,GSTM1a-1a,GSTM1b-1b,GTH4,GTM1,H-B,MU, MU-1,GST HB subunit 4,GST class-mu 1.

### Description

Source : Escherichia Coli. GSTM1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 203 amino acids (1-181 a.a) and having a molecular mass of 23.6kDa.GSTM1 is fused to a 22 amino acid His-tag at N-terminus & 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

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 85.0% as determined by SDS-PAGE.
<b>Content :</b>	GSTM1 protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH RSMPLILGYW DIRGLAHAIR LLELYTDSSY EEKKYTMGDA PDYDRSQWLNEKFKLGLDFP NLPYLIDGAH KITQSNAILC YIARKHNLCG ETEEEKIRVD ILENQTMDSH MQLGMICYNPEFEKLPKYL EELPEKLLY SEFLGKRPWF AGNKGLEKIS AYMKSSRFLP RPFVSKMAVW GNK.

