

**GSTM1, 1-218 aa, Mouse, Recombinant, E.coli**

**Cat.NO.: TP02354**

3th Edition

**Synonyms:** Glutathione S-transferase Mu 1, GST class-mu1, GST 1-1, pmGT10

**Description:** GSTM1 is a glutathione S-transferase that belongs to the mu class. This enzyme acts by catalyzing the reaction of glutathione with an acceptor molecule to form an S-substituted glutathione (S=sulfur). The reactions utilizing glutathione contribute the transformation of a wide variety of electrophiles, including reactive products of lipid, protein, carcinogens, therapeutic drugs, environmental toxins, and products of oxidative stress. Recombinant GSTM1 protein was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:** Liquid. In PBS (pH7.4) containing 5 mM glutathione

**Molecular Weight:** 25.9 kDa (218 aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

**Sequences:**

MPMILGYWNVRGLTHPIRMLLEYTDSSYDEKRYTMGDAPDFDRSQWLNEKFKLGLDFPNLPYLIDGSHKITQSNAIL  
RYLARKHHLDGETEEERIRADIVENQVMDTRMQLIMLCYNPDFEKQKPEFLKTIPEKMKLYSEFLGKRPWFAGDKV  
TYVDFLAYDILDQYRMFEPKCLDAFPNLRDFLARFEGGLKKISAYMKSSRYIATPIFSKMAHWSNK

**Purity:** > 95% by HPLC

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.