

**GSTM1, 1-181aa Human, His tag, E.coli**

**Cat.NO.: TP02353**

---

3th Edition

**Synonyms:**Glutathione S-transferase mu 1 , GST1, GSTM1-1, GSTM1a-1a, GSTM1b-1b, GTH4, GTM1, H-B, MU, MU-1

**Description:**Glutathione S-transferase mu 1 isoform 2, also known as GSTM1, is a glutathione S-transferase that belongs to the mu class. GSTs (glutathione S-transferase) are differentially expressed in lung, liver and kidney tissue and, notably, three isoforms (GSTA1-1, GSTA1-4 and GSTM1) localize to the mitochondria in addition to the cytoplasm. The GSTM1 of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. Recombinant human GSTM1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

**Molecular Weight:**23.6 kDa (203aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHRSMPMILGYWDIRGLAHAIRLLLEYTDSSYEKKYTMGDAPDYDRSQWLNEKFKL  
GLDFPNLPYLIDGAHKITQSNAILCYIARKHNLCGETEEEEKIRVDILENQTMDNHMQLGMICYNPEFEKLPKYLEELP  
EKLKLYSEFLGKRPWFAGNKGLEKISAYMKSSRFLPRPVFSKMAVWGNK

**Purity:**> 95% by HPLC

**Concentration:**0.25 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.