

---

**Product Data Sheet**


---

Product Name: GSTM5 Human

Cat. No.: GP21749

Batch No.: 1

**Product Data**

Purity &gt;98%

Source E.coli.

Physical  
Appearance

solid

Shipping  
Condition Shipped with Ice Packs.

Synonyms

Glutathione S-transferase mu 5; GSTM5-5; GST class-mu 5; GTM5;  
glutathione S-alkyltransferase M5; S-(hydroxyalkyl) glutathione lyase M5;  
EC 2.5.1.18.Amino Acid  
SequenceMGSSHHHHHH SGLVPRGSH MGSHPMTLG YWDIRGLAHA IRLLEYTDS  
SYVEKKYTLG DAPDYDRSQW LNEKFKLGLD FPNLPYLIDG AHKITQSNAI  
LRYIARKHNL CGETEEEEKIR VDILENQVMD NHMELVRLCY DPDFEKLKPK  
YLEELPEKLG LYSEFLGKRP WFAGDKITFV DFLAYDVLDL KRIFEPKCLD  
AFLNLKDFIS RFEGLKKISA YMKSSQFLRG LLFGKSATWN SK

Formulation

The GSTM5 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0),  
0.1M NaCl, 1mM DTT and 10% glycerol.**Introduction**

Glutathione S-transferase mu 5 (GSTM5) belongs to the glutathione s-transferase (GST) family of proteins. There are 8 families of GST proteins, specifically alpha, kappa, mu, omega, pi, sigma, theta and zeta, each of which is comprised of proteins which have various functions throughout the cell. GSTM5 belongs to the mu class of enzymes which function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. GSTM5 has an imperative role in detoxification. GSTM5 conjugates reduced glutathione to a large number of exogenous and endogenous hydrophobic electrophiles.

**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%

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

---

## Product Data Sheet

---

HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

GSTM5 Human Recombinant produced in E. coli is a single polypeptide chain containing 242 amino acids (1-218) and having a molecular mass of 28.2 kDa. GSTM5 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**