

## Glutathione S-Transferase MU 5 Human Recombinant, Active

<b>Item Number</b>	rAP-2061
<b>Synonyms</b>	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.
<b>Description</b>	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.
<b>Uniprot Accession Number</b>	P46439
<b>Amino Acid Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSHPMTLG YWDIRGLAHA IRLLEYTDS SYVEKKYTLG DAPDYDRSQW LNEKFKLGLD FPNLPYLIDG AHKITQSNAI LRYIARKHNL CGETEEEEKIR VDILENQVMD NHMELVRLCY DPDFEKLKPK YLEELPEKPK LYSEFLGKRP WFAGDKITFV DFLAYDVLDM KRIFEPKCLD AFLNLKDFIS RFEGLKKISA YMKSSQFLRG LLFGKSATWN SK.
<b>Source</b>	E.coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered colorless solution. 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>Formulation and Purity</b>	The GSTM5 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT and 10% glycerol. Greater than 95% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	Specific activity is > 90,000 pmol/min/ug, 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.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**