

## GSTM3 Human

**Description:** GSTM3 Recombinant produced in E. coli is a single polypeptide chain containing 249 amino acids (1-225) and having a molecular mass of 29.1kDa. GSTM3 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-599

For research use only.

**Synonyms:** Glutathione S-transferase mu 3 (brain), GST5, GSTM3-3, GST class-mu 3, GSTB, GTM3, brain type mu-glutathione S-transferase, glutathione S-alkyltransferase M3, glutathione S-alkyltransferase M3, S-(hydroxyalkyl)glutathione lyase M3, EC 2.5.1.18.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMSCESS MVLGYWDIRG  
LAHAIRLLLE FTDTSYEEKR YTCGEAPDYD RSQWLDVKFK LDLDFPNLPY LLDGKNKITQ  
SNAILRYIAR KHNMCGETEE EKIRVDIEN QVMDFRTQLI RLCYSSDHEK LKPQYLEELP  
GQLKQFSMFL GKFSWFAGEK LTFVDFTLYD ILQNRIFDP KCLDEFPNLK AFMCRFEALE  
KIAAYLQSDQ FC

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

The GSTM3 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol.

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

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

GSTM3 belongs to the glutathione s-transferase (GST) family of proteins. There are eight GST proteins families, named alpha, kappa, mu, omega, pi, sigma, theta and zeta. Each one of the GST families has several proteins with different functions throughout the cell. The mu type of enzymes takes part in the detoxification of electrophilic compounds, including therapeutic drugs, carcinogens, environmental toxins and products of oxidative stress, by conjugation with glutathione.

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