

**GSTM3, 1-225aa, Human, His tag, E.coli**

**Cat.NO.: TP02356**

3th Edition

**Synonyms:** Glutathione S-transferase mu 3, GST5, GSTB, GSTM3-3, GTM3.

**Description:** Glutathione S-transferase mu 3, also known as GSTM3, is member of the glutathione s-transferase (GST) family of proteins. There are eight families of GST proteins, namely alpha, kappa, mu, omega, pi, sigma, theta and zeta, each of which is composed of proteins that have a variety of functions throughout the cell. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

**Molecular Weight:** 29.1 kDa (249aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMSCSSMVLGYWDIRGLAHAIRLLLEFTDTSYEEKRYTCGEAPDYDRSQW  
LDVKFKLDLDFPNLPYLLDGKNKITQSNAILRYIARKHNMCGETEEEEKIRVDIIENQVMDFR TQLIRLCYSSDHEKLKP  
QYLEELPGQLKQFSMFLGKFSWFAGEKLTFVDFTYDILDQNRIFDPKCLDEFPNLKAFMCRFEALEKIAAYLQSDQ  
FCKMPINNKMAQWGNKPVC

**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.