

AR50288PU-S**Human GSTM3 / GST5 (1-225, His-tag) - Purified****Alternate names:**

GST class-mu 3, GSTM3-3, Glutathione S-transferase Mu 3

Quantity:

0.1 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:[P21266](#)**NCBI:**[NP_000840](#)**GeneID:**[2947](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >95% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl**Description:**

Recombinant human GSTM3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMSCESS MVLGYWDIRG LAHAIRLLLE FTDTSYEEKR
YTCGEAPDYD RSQWLDVKFK LDLDFPNLPY LLDGKNKITQ SNAILRYIAR KHNMCGETEE
EKIRVDIEN QVMDFRITQLI RLCYSSDHEK LKPQYLEELP GQLKQFSMFL GKFSWFAGEK
LTFVDFLTID ILDNRIIFDP KCLDEFPNLK AFMCRFEALE KIAAYLQSDQ FCKMPINNKM
AQWGNKPVC

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

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Boqaards JJ., et al. (1992) Biochem J. 289(2):383-8. Rozell B., et al. (1992) Xenobiotica. 23(8):835-49.

Pictures:

