

Product datasheet for AR51431PU-S

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OriGene Technologies, Inc.

GSTM1 (1-181, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: GSTM1 (1-181, His-tag) human recombinant protein, 50 μg

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH RSMPMILGYW DIRGLAHAIR LLLEYTDSSY EEKKYTMGDA PDYDRSQWLN EKFKLGLDFP NLPYLIDGAH KITQSNAILC YIARKHNLCG ETEEEKIRVD ILENQTMDNH MQLGMICYNP EFEKLKPKYL EELPEKLKLY SEFLGKRPWF AGNKGLEKIS

AYMKSSRFLP RPVFSKMAVW GNK

Tag: His-tag
Predicted MW: 23.6 kDa
Concentration: lot specific

Purity: >85% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Preparation: Liquid purified protein

Protein Description: Recombinant human GSTM1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

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.

Stability: Shelf life: one year from despatch.

RefSeq: NP 000552

Locus ID: 2944

UniProt ID: <u>P09488</u>, <u>X5DR03</u>

Cytogenetics: 1p13.3

Synonyms: GST1; GSTM1-1; GSTM1a-1a; GSTM1b-1b; GTH4; GTM1; H-B; MU; MU-1





Summary:

Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase that belongs to the mu class. 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. The genes encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Null mutations of this class mu gene have been linked with an increase in a number of cancers, likely due to an increased susceptibility to environmental toxins and carcinogens. Multiple protein isoforms are encoded by transcript variants of this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by

cytochrome P450

Product images:

