

Recombinant Human Glutathione S-transferase Mu 4, His-tagged

Cat. No. GSTM4-780H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human GSTM4 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques. MW =27.7kDa (238aa) confirmed by MALDI-TOF.

Species Human

Source E.coli


Description Glutathione S-transferase Mu 4 isoform 1, also known as GSTM4, 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.

Sequences Of Amino Acids MGSSHHHHHH SSSLVPRGSH MSMTLGYWDI RGLAHAIRLL LEYTDSSYEE
 KKYTMGDAPD YDRSQWLNEK FKLGLDFPNL PYLIDGAHKI TQSNAILCYI
 ARKHNLGGET EEEKIRVDIL ENQAMDVSNQ LARVCYSPDF EKLKPEYLEE
 LPTMMQHFSQ FLGKRPWFVG DKITFVDFLA YDVLDLHRIF EPNCLDAFPN
 LKDFISRFEG LEKISAYMKS SRFLPKPLYT RVAVWGNK

Purity > 95% by SDS – PAGE.

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Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 50mM NaCl.
Concentration	1 mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	GSTM4 glutathione S-transferase mu 4 [Homo sapiens]
Synonyms	GSTM4; glutathione S-transferase mu 4; GTM4; GSTM4-4; MGC9247; MGC131945; GST-Mu2; GTS-Mu2; GST class-mu 4; glutathione S-transferase M4; glutathione S-aryltransferase M4; glutathione S-alkyltransferase M4; glutathione S-aralkyltransferase M4; S-(hydroxyalkyl)glutathione lyase M4; EC 2.5.1.18
Gene ID	2948
mRNA Refseq	NM_000850
Protein Refseq	NP_000841
MIM	138333
UniProt ID	Q03013
Chromosome Location	1p13.3
Pathway	Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolism of

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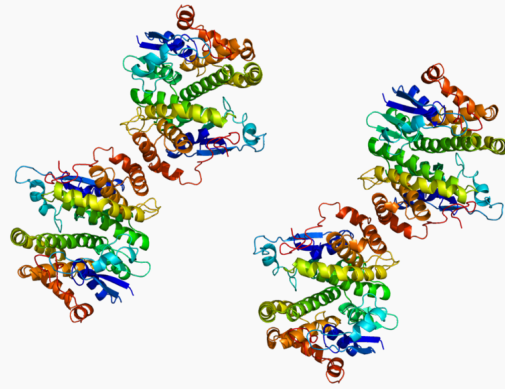
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xenobiotics by cytochrome P450

Function

glutathione transferase activity; transferase activity

PDB rendering based
on 4gtu.



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