Recombinant Human GSTM3 protein, His & T7-tagged

Cat. No. GSTM3-664H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GSTM3 aa. (Val8~Pro223 (Accession # P21266)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Val8~Pro223
Description	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. Mutations of this class mu gene have been linked with a slight increase in a number of cancers, likely due to exposure with environmental toxins. Alternative splicing results in multiple transcript variants.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.4kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 6.4.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	GSTM3 glutathione S-transferase mu 3 [Homo sapiens (human)]
Official Symbol	GSTM3
Synonyms	GSTM3; glutathione S-transferase mu 3; GST5; GSTB; GTM3; GSTM3-3; glutathione

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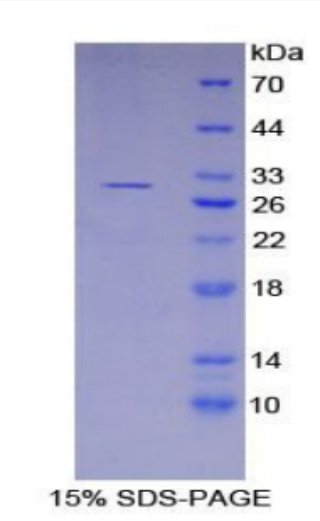
	S-transferase Mu 3; GST class-mu 3; S-(hydroxyalkyl)glutathione lyase M3; brain GST; brain type mu-glutathione S-transferase; glutathione S-alkyltransferase M3; glutathione S-aralkyltransferase M3; glutathione S-transferase M3 (brain); glutathione S-aryltransferase M3; glutathione S-transferase mu 3 (brain); glutathione S-transferase, Mu-3; hGSTM3-3
Gene ID	2947
mRNA Refseq	NM_000849.4
Protein Refseq	NP_000840.2
UniProt ID	P21266
SDS-PAGE	 15% SDS-PAGE

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