

Recombinant Full Length Human GSTM5 Protein

Cat. No. GSTM5-217HF Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length Human GSTM5 with a N terminal proprietary tag: predicted molecular weight 50.05 kDa.

Species Human

Source In Vitro Cell Free System

ProteinLength 218 amino acids

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 individuals susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Diversification of these genes has occurred in regions encoding substrate-binding domains, as well as in tissue expression patterns, to accommodate an increasing number of foreign compounds.

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Form	Liquid
Molecular Mass	50.050kDa inclusive of tags
AA Sequence	MPMTLGYWDIRGLAHAIRLLLEYTDSSYVEKKYTLGDAPD YDRSQWLNEKFKLGLD FPNLPYLIDGAHKITQSNAILRYI ARKHNLCGETEEEEKIRVDILENQVMDNHMELVRL CYDPDF EKLKPKYLEELPEKLLKLYSEFLGKRPWFAGDKITFVDFLA YDVLDMKRIFE PKCLDAFLNLKDFISRFEGLKKISAYMKS SQFLRGLLFGKSATWNSK
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name	GSTM5 glutathione S-transferase mu 5 [Homo sapiens]
Official Symbol	GSTM5
Synonyms	GSTM5; glutathione S-transferase mu 5; glutathione S transferase M5; glutathione S-transferase Mu 5
Gene ID	2949
mRNA Refseq	NM_000851
Protein Refseq	NP_000842

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MIM	138385
UniProt ID	P46439

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