

Datasheet for ABIN7505356

GSTM1 Protein (AA 2-218) (His tag)



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Overview

Quantity:	100 µg
Target:	GSTM1
Protein Characteristics:	AA 2-218
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GSTM1 protein is labelled with His tag.

Product Details

Sequence:	Pro2-Lys218
Characteristics:	A DNA sequence encoding the Mouse Gstm1 (P10649-1) (Pro2-Lys218) was expressed with a polyhistidine tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	GSTM1
Alternative Name:	GSTM1 (GSTM1 Products)
Background:	<p>Abbreviation: GSTM1</p> <p>Target Synonym: Glutathione S-transferase Mu 1,GST class-mu 1,GST HB subunit 4,GST1,Gstm1,GSTM1-1,GSTM1,GSTM1a-1a,GSTM1b-1b,GTH4,GTM1,H-B,LIVER AND FIBROBLAST GST1,MU,MU-1</p>

Target Details

Background: 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.

Molecular Weight: Calculated MW: 25.7 kDa
Observed MW: 28 kDa

UniProt: [P10649-1](#)

Pathways: [Negative Regulation of Transporter Activity](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months