

ARG83296 Human GSTM1 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83296 Human GSTM1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human GSTM1 in Serum, Plasma and Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	GSTM1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15 pg/ml
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sample Type	Serum, Plasma and Cell culture supernatants
Precision	Intra-Assay CV: 5.5% Inter-Assay CV: 4.5%
Alternate Names	GST HB subunit 4; MU-1; GST class-mu 1; GST1; Glutathione S-transferase Mu 1; GSTM1-1; GSTM1a-1a; MU; GTH4; EC 2.5.1.18; GSTM1b-1b; H-B; GTM1

Application Instructions

Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

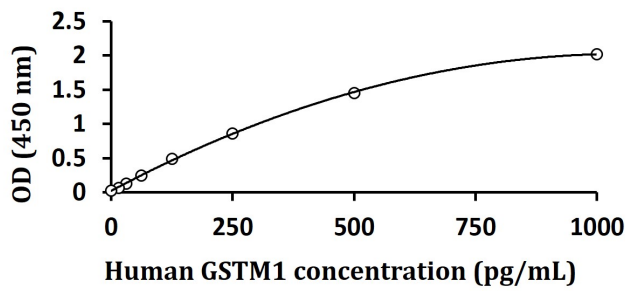
Gene Symbol	GSTM1
Gene Full Name	glutathione S-transferase mu 1
Background	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: 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. [provided by RefSeq, Jul 2008]

Function

Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. [UniProt]

Images



ARG83296 Human GSTM1 ELISA Kit standard curve image

ARG83296 Human GSTM1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.