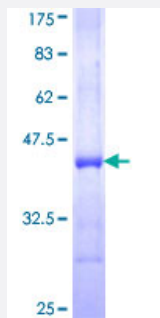


GSTZ1 (Human) Recombinant Protein (Q01)

Catalog # H00002954-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GSTZ1 partial ORF (NP_665877, 109 a.a. - 216 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GIQPLQNLSVLKQVGEEMQLTWAQNAITCGFNALEQILQSTAGIYCVGDEVTMADLCLVPQVANA ERFKVDLTPYPTISSINKRLLVLEAFQVSHPCRQPDTPTELRA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.62
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GSTZ1

Entrez GeneID [2954](#)

GeneBank Accession# [NM_145870](#)

Protein Accession# [NP_665877](#)

Gene Name GSTZ1

Gene Alias GSTZ1-1, MAAI, MAI, MGC2029

Gene Description glutathione transferase zeta 1

Omim ID [603758](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene is a member of the glutathione S-transferase (GSTs) super-family which encodes multifunctional enzymes important in the detoxification of electrophilic molecules, including carcinogens, mutagens, and several therapeutic drugs, by conjugation with glutathione. This enzyme also plays a significant role in the catabolism of phenylalanine and tyrosine. Thus defects in this enzyme may lead to severe metabolic disorders including alkaptonuria, phenylketonuria and tyrosinaemia. Several transcript variants of this gene encode multiple protein isoforms. [provided by RefSeq]

Other Designations S-(hydroxyalkyl)glutathione lyase|glutathione S-alkyltransferase|glutathione S-aryltransferase|glutathione S-aryltransferase|glutathione s-transferase Zeta 1|maleylacetoacetate isomerase|maleylacetone isomerase

Pathway

- [Drug metabolism - cytochrome P450](#)
- [Glutathione metabolism](#)

- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Styrene degradation](#)
- [Tyrosine metabolism](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cognition](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Keratosis](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Parkinson disease](#)
- [Pulmonary Disease](#)
- [Sensation Disorders](#)
- [Urinary Bladder Neoplasms](#)
- [Vestibular Diseases](#)
- [Werner syndrome](#)