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Product datasheet for AR09373PU-N

GSTO1 (1-241) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	GSTO1 (1-241) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	GSTO1, also known as p28 or GSTTLp28, is a protein that localizes to the cytoplasm and contains both an N-terminal and a C-terminal GST domain. In mouse, the encoded protein acts as a small stress response protein, likely involved in cellular redox homeostasis. This protein has dehydroascorbate reductase activity and may function in the glutathione-ascorbate cycle as part of antioxidant metabolism. Recombinant human GSTO1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Predicted MW:	27.5 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human GSTO1 protein was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001177931
Locus ID:	9446
UniProt ID:	P78417
Cytogenetics:	10q25.1
Synonyms:	GSTO 1-1; GSTTLp28; HEL-S-21; P28; SPG-R

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Summary: The protein encoded by this gene is an omega class glutathione S-transferase (GST) with glutathione-dependent thiol transferase and dehydroascorbate reductase activities. GSTs are involved in the metabolism of xenobiotics and carcinogens. The encoded protein acts as a homodimer and is found in the cytoplasm. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolism of xenobiotics by cytochrome P450

Product images: