
Product Data Sheet

Product Name: GSTO1 Human
Cat. No.: GP21751
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutathione S-transferase omega-1; GSTO 1-1; GSTO1; GSTTLP28; P28; DKFZp686H13163.		
Formulation	GSTO1 protein is supplied in 20 mM Tris pH 8.0 and 50% glycerol.		

Introduction

GSTO1 belongs to the theta class glutathione S-transferase-like (GSTTL) protein family. GSTO1 is expressed in a broad array of human tissues and exhibits glutathione-dependent thiol transferase and dehydroascorbate reductase activities as well as catalyzing the reduction of monomethylarsonate which is an intermediate in the pathway of arsenic biotransformation. Furthermore, GSTO1 shields from oxidative stress which is a risk factor for Alzheimer disease, vascular dementia and stroke. GSTO1 is abundant in alveolar macrophages and airway secretions, with the levels reduced in chronic obstructive pulmonary disease patients. In mouse, the GSTO1 protein acts as a small stress response protein, probably involved in cellular redox homeostasis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

GSTO1 Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 241 amino acids fragment (1-241) having a Mw of 32.1 kDa. GSTO1 is fused with an amino-terminal hexahistidine tag having a total Mw of 36kDa and purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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