www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

GSTO1 Human

Description: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.

Catalog #:ENPS-441

For research use only.

Synonyms: Glutathione S-transferase omega-1, GSTO 1-1, GSTO1, GSTTLP28, P28, DKFZp686H13163.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
GSTO1 protein is supplied in 20 mM Tris pH 8.0 and 50% glycerol.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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