

Recombinant Human GSTA1 Protein

Catalog No.: RP01456

Sequence Information

Species **Gene ID**
Human 2938

Swiss Prot **Tags**
P08263 C-His

Synonyms

GSTA1, GST-epsilon, GST2, GSTA1-1, GTH1

Product Information

Source **Purification**
HEK293 cells ≥ 90 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
27.1 kDa 25–30 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4, 5% trehalose, mannitol and 0.01% Tween80.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1–0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

GSTA1 (Glutathione S-Transferase Alpha 1) is a Protein Coding gene. This gene encodes a member of a family of enzymes that function to add glutathione to target electrophilic compounds. Glutathione S-transferases (GSTs) are involved in the detoxification of carcinogens and may be linked to carcinogenesis. As a vital component of GSTs, GSTA1 plays an important role in carcinogenesis. GSTA1 expression may be a target molecule in the early diagnosis and treatment of lung cancer. Human colonic adenocarcinoma (Caco-2) cells in culture undergo spontaneous differentiation into mature enterocytes in association with progressive increases in expression of glutathione S-transferase alpha-1 (GSTA1). GSTA1 levels may play a role in modulating enterocyte proliferation but do not influence differentiation or apoptosis. GSTA1 may play a key role during pregnancy.

Basic Information

Description

Recombinant Human GSTA1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1–Phe222) of human GSTA1 (Accession #NP_665683.1) fused with a 6×His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

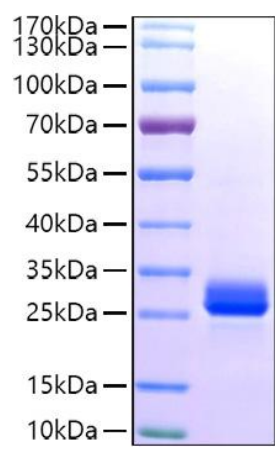
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Validation Data



Recombinant Human GSTA1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.