

Recombinant Human Glutathione S-transferase Mu 2/GST4/GSTM2 Protein

Catalog No.: RP02122

Sequence Information

Species **Gene ID**
Human 2946

Swiss Prot **Tags**
P28161 N-His

Synonyms

GSTM2, GST4, GSTM, GSTM2-2, GTHMUS

Product Information

Source **Purification**
E. coli ≥ 95 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
27.2 kDa 27 kDa

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from a 0.22 µm filtered solution of 50mM Tris, 150mM NaCl, 10mM CaCl₂, 0.05% Brig-35, pH 7.5.

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

Glutathione S-transferase Mu 2, also known as GST class-mu 2, GSTM2-2, and GSTM2, is a cytoplasm protein that belongs to the GST superfamily and Mu family. GSTM2 / GST4 contains one GST C-terminal domain and one GST N-terminal domain. The glutathione S-transferases (GSTs) are a multigene family of enzymes largely involved in the detoxification of chemicals. Eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta, and zeta. Butyrate, an important luminal component produced from the fermentation of dietary fibers, is an efficient inducer of GSTs and especially of GSTM2. Butyrate may act chemoprotective by increasing detoxification capabilities in the colon mucosa.

Basic Information

Description

Recombinant Human Glutathione S-transferase Mu 2/GST4/GSTM2 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Met1–Lys218) of Human Glutathione S-transferase Mu 2/GST4 /GSTM2 (Accession #NP_000839.1) fused with a 6×His tag at the N-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.

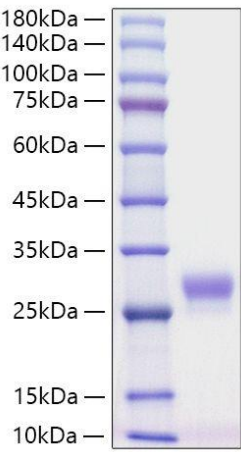
Contact

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Validation Data



Recombinant Human Glutathione S-transferase Mu 2/GST4/GSTM2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.