Human Recombinant GSTA1

CATALOG #: 6346-100 100 µg

ALTERNATE NAMES: Glutathione S-transferase alpha 1, GST2, GSTA1-1, GTH1.

SOURCE: E.Coli

PURITY: > 90% by SDS - PAGE

MOL. WEIGHT: 25.6 kDa (222 aa, 1-222 aa)

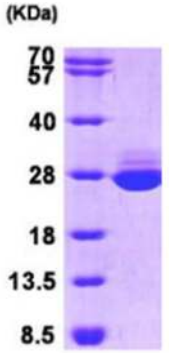
FORMULATION: 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT and 10% glycerol.

STORAGE CONDITIONS:
Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:
Glutathione S-transferase A1 in humans is encoded by the GSTA1 gene. Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. These enzymes function in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding these enzymes are known to be highly polymorphic. GSTA1 protects the cells from reactive oxygen species and is highly expressed in liver.

AMINO ACID SEQUENCE:
MAEKPKLHYF NARGRMESTR WLLAAAGVEF EEKFIKSAED LDKLRNDGYL MFQQVPMVEI DGMKLVQTRA ILNYIASKYN LYGKDIKERA LIDMYIEGIA DLGEMILLLP VCPPEEKDAK LALIKEKIKN RYFPAFEKVL KSHGQDYLVG NKLSRADIHL VELLYYVEEL DSSLISSFPL LKALKTRISN LPTVKKFLQP GSPRKPPMDE KSLEEARKIF RF

BIOLOGICAL ACTIVITY:
Specific activity is 5-8 units/mg, and is defined as the amount of enzyme that conjugates 1.0 µ mole of 1-chloro-2, 4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25°C.



15% SDS-PAGE (3ug)

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RELATED PRODUCTS:

- GST Colorimetric Activity Assay Kit **(Cat. No. K263-100)**
- GST Fluorometric Activity Assay Kit **(Cat. No. K260-100)**
- GST Inhibitor-1 (Cibacron Blue 3G-A, Sodium Salt) **(Cat. No. 1555R-1000)**
- GST Inhibitor-2 (Ethacrynic acid) **(Cat. No. 1556-1000)**
- Human recombinant GSTP1 **(Cat. No. 6347-100)**
- Mouse recombinant GSTMu 1 **(Cat. No. 6348-100)**
- Mouse recombinant GSTM1 **(Cat. No. 6349-100)**
- Human recombinant GSTM2 **(Cat. No. 6350-100)**
- Schistosoma japonicum recombinant GST **(Cat. No. 6351-100)**
- Human recombinant GSR **(Cat. No. 6352-100)**

FOR RESEARCH USE ONLY! Not to be used in humans.

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