

GSTA1 Human

Description: GSTA1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 222 amino acids (1-222 a.a.) and having a molecular mass of 25.6 kDa. The GSTA1 is purified by proprietary chromatographic techniques.

Catalog #: ENPS-476

For research use only.

Synonyms: GST2, GSTA1-1, GTH1, GSTA-1, GSTAI, GSTA-I, EC 2.5.1.18, Glutathione S-transferase A1, GST HA subunit 1, GST-epsilon, GST class-alpha member 1, GSTA1, MGC131939.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MAEKPKLHYF NARGRMESTR WLLAAAGVEF EEKFIKSAED
LDKLRNDGYL MFQQVPMVEI DGMKLVQTRA ILNYIASKYN LYGKDIKERA LIDMYIEGIA
DLGEMILLP VCPPEEKDAK LALIKEIKN RYFPAFEKVL KSHGQDYLVG NKLSRADIHL
VELLYYVEEL DSSLISSFPL LKALKTRISN LPTVKKFLQP GSPRKPPMDE KSLEEARKIF RF.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The GSTA1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% 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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

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

Introduction:

Membrane-bound & Cytosolic forms of GST are encoded by 2 separate 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. There are 8 different classes of soluble cytoplasmic mammalian GST: alpha, kappa, mu, omega, pi, sigma, theta and zeta. The GSTA1 is found in a cluster mapped to chromosome 6, and is highly expressed in the liver. GSTA1 protects the cells from reactive oxygen species.

Biological Activity:

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

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