

## 32-2403: GSTA1 Recombinant Protein

**Alternative Name** 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.

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

**Amount :** 50 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** The GSTA1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MAEKPKLHYF NARGRMESTR WLLAAAGVEF EEKFIKSAED LDKLRNDGYL MFQQVPMVEI DGMKLVQTRA ILNYIASKYN LYGKDIKERA LIDMYIEGIA DLGEMILLLP VCPPEEKDAK LALIKEKIKN RYFPAFEKVL KSHGQDYLVG NKLSRADIHL VELLYYVEEL DSSLISSFPLLKALKTRISN LPTVKKFLQP GSPRKPPMDE KSLEEARKIF RF.

### Application Note

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.

