

GSTA4 Human

Description: GSTA4 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 246 amino acids (1-222) and having a molecular mass of 28.3kDa. GSTA4 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-607

For research use only.

Synonyms: Glutathione S-transferase A4, GST class-alpha member 4, Glutathione S-transferase A4-4, GSTA4, GSTA4-4.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MGSMAARPK LHYPNGRGRM
ESVRWVLAAA GVEFDEEFLE TKEQLYKLQD GNHLLFQQVP MVEIDGMKLV QTRSILHYIA
DKHNLFQGNL KERTLIDMYV EGTLDLLELL IMHPFLKPDD QQKEVVNMAQ KAIRYFPVF
EKILRGHGQS FLVGNQLSLADVILLQTLA LEEKIPNILS AFPFLQEYTV KLSNIPTIKR
FLEPGSKKKP PPD

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The GSTA4 solution (1mg/ml) contains 20mM Tris-HCl buffer, pH8.0, 20% glycerol, 2mM DTT and 100mM NaCl.

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:

Glutathione S-transferase A4 (GSTA4) is a member of the GST superfamily. The GSTA4 enzyme is involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. GSTA4 shows an especially high activity with reactive carbonyl compounds such as alk-2-enals. GSTA4 is extremely effective in catalyzing the conjugate addition of reduced glutathione to 4-hydroxynonenal, which is an important product of peroxidative degradation of arachidonic acid and a frequently used biomarker for oxidative damage in tissue. The GSTA4 enzyme is expressed at a high level in the brain, placenta, and skeletal muscle and much lower in the lung and liver.

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