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GSTZ1 Human

Catalog #:ENPS-501

For research use only.

Description:GSTZ1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 236 amino acids (1-216 a.a.) and having a molecular mass of 26.2 kDa. The GSTZ1 is fused to a 20 amino acid His-Tag at N-terminus and purified by conventional chromatography.

Synonyms:MAAI, GSTZ-1, MAI, Maleylacetone Isomerase, EC 2.5.1.18, Maleylacetoacetate isomerase, Glutathione S-transferase zeta 1, EC 5.2.1.2, GSTZ1-1, MGC2029, GSTZ1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MQAGKPILYS YFRSSCSWRV RIALALKGID YETVPINLIK DGGQQFSKDF QALNPMKQVP TLKIDGITIHQSLAIIEYLE ETRPTPRLLP QDPKKRASVR MISDLIAGGI QPLQNLSVLK QVGEEMQLTW AQNAITCGFN ALEQILQSTA GIYCVGDEVTMADLCLVPQV ANAERFKVDL TPYPTISSIN KRLLVLEAFQ VSHPCRQPDT PTEL

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

Formulation:
The GSTZ1 protein solution contains 1x PBS pH-7.4 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 drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
GSTZ1 is part of the glutathione S-transferase super-family which encodes multifunctional enzymes vital in the detoxification of electrophilic molecules, including carcinogens, mutagens, and several therapeutic drµgs, by conjµgation with glutathione. GSTZ1 participates in the catabolism of phenylalanine and tyrosine. Thus defects in GSTZ1 cause harsh metabolic disorders including alkaptonuria, phenylketonuria and tyrosinaemia. GSTZ1 is a bifunctional protein which has minimal glutathione-conjµgating activity with ethacrynic acid and 7-chloro-4-nitrobenz-2-oxa-1,3-diazole and maleylacetoacetate isomerase activity. GSTZ1 has low glutathione peroxidase activity with T-butyl and cumene hydroperoxides. GSTZ1 catalyzes the glutathione dependent oxygenation of dichloroacetic acid to glyoxylic acid.

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