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GSTM2 Human

Catalog #:ENPS-010

For research use only.

Description:GSTM2 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 238 amino acids (1-218 a.a.) and having a molecular mass of 27.9kDa. The GSTM2 is purified by proprietary chromatographic techniques.

Synonyms: Glutathione S-transferase Mu 2, GST class-mu 2, GSTM2-2, GSTM2, GST4, GSTM, GTHMUS, MGC117303.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MPMTLGYWNI RGLAHSIRLL LEYTDSSYEE KKYTMGDAPD YDRSQWLNEK FKLGLDFPNL PYLIDGTHKI TQSNAILRYI ARKHNLCGES EKEQIREDIL ENQFMDSRMQ LAKLCYDPDF EKLKPEYLQA LPEMLKLYSQ FLGKQPWFLG DKITFVDFIA YDVLERNQVF EPSCLDAFPN LKDFISRFEG LEKISAYMKS SRFLPRPVFT KM

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

Formulation:
The GSTM2 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol,0.1M NaCl and 1mM DTT.

Stability:
GSTM2 althoμgh stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent 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:
Glutathione S-transferase Mu 2 (GSTM2) belongs to the glutathione s-transferase (GST) family of proteins. GSTM2 is a glutathione S-transferase that belongs to the mu class. There are 8 families of GST proteins, specifically: alpha, kappa, mu, omega, pi, sigma, theta and zeta, each of which is composed of proteins that have various functions throμghout the cell. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drμgs, environmental toxins and products of oxidative stress, by conjμgation with glutathione. The genes encoding the mu class of enzymes are structured in a gene cluster on chromosome 1p13.3 and are proven to be highly polymorphic. These genetic variants can change an individual"s susceptibility to carcinogens and toxins as well as have an effect on the toxicity and efficacy of several drμgs.

Biological Activity:
Specific activity is < 25 units/mg, and is defined as the amount of enzyme that conjμgate 1.0

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