

GSTM1 Mouse

Description: GSTM1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 218 amino acids and having a molecular mass of 25.9 kDa. The GTM1 is purified by proprietary chromatographic techniques.

Catalog #:ENPS-404

For research use only.

Synonyms: GST1, GTH4, GTM1, GSTM1-1, MGC26563, GSTM1a-1a, GSTM1b-1b, GSTM1, Glutathione S-transferase Mu 1, GST class-mu 1, Glutathione S-transferase GT8.7, pmGT10, GST 1-1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MPMLGYWNV RGLTHPIRML LEYTDSSYDE KRYTMGDAPD
FDRSQWLNEK FKLGLDFPNL PYLIDGSHKI TQSNAILRYL ARKHHLGDET EEERIRADIV
ENQVMDTRMQ LIMLCYNPDF EKQKPEFLKT IPEKMKLYSE FLGKRPWFAG DKVTYVDFLA
YDILDQYRMF EPKCLDAFPN LRDFLARFEG LKKISAYMKS SRYIATPIFS KMAHWSNK.

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

Formulation:

The GSTM1 solution contains PBS pH-7.4 & 5mM glutathione.

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:

Cytosolic and membrane-bound types of GST are encoded by 2 different supergene families. There are 8 classes of the soluble cytoplasmic mammalian GST: alpha, kappa, mu, omega, pi, sigma, theta and zeta. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are arranged in a gene cluster on chromosome 1p13.3 and are highly polymorphic. These genetic differences can change an individual's resistance to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Null mutations of this class mu gene have been linked with the rise in a number of cancers.

Biological Activity:

Specific activity is 3 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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