

GSTM1 Mouse, Glutathione S-Transferase M1 Mouse Recombinant Protein, His Tag

Catalog Number: PROTP10649-1

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.

Overview

Product Name	GSTM1 Mouse, Glutathione S-Transferase M1 Mouse Recombinant Protein, His Tag
Description	GSTM1 Mouse Recombinant 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 28.1kDa. The GSTM1 is fused to a 20 amino acid His-Tag at N-Terminus and purified by proprietary chromatographic techniques.
Size	5ug, 25ug, 1mg
Tag	
Form	Sterile Filtered colorless solution.
Source	E. Coli
Formulation	The GSTM1 solution contains 20 mM Tris-HCl buffer (pH8.0), 1mM DTT and 10% glycerol

Concentration

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MPMILGYWNV RGLTHPIRML LEYTDSSYDE KRYTMGDAPD FDRSQLNEK FKLGLDFPNL PYLIDGSHKI
TQSNAILRYL ARKHHL DGET EEERIRADIV ENQVMDTRMQ LIMLCYNPDF EKQKPEFLKT IPEKMKLYSE FLGKRPWFAG DKVTYVDFLA
YDILDQYRMF EPKCLDAFPN LRDFLARFEG LKKISAYMKS SRYIATPIFS KMAHWSNK.

Biological Activity

Specific activity is < 11 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 25C.

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Usage

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