Recombinant human Glutathione S-transferase mu 1/GSTM1 protein

Catalog Number: ATGP3838

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
1-218aa

UniProt No.
P09488

NCBI Accession No.
NP_000552

Alternative Names
Mu-1, Mu, H-B, GTM1, GTH4, GSTM1b-1b, GSTM1a-1a, GSTM1-1, GST1, Glutathione S-transferase mu 1

PRODUCT SPECIFICATION

Molecular Weight
26.8 kDa (227aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 2mM DTT, 0.1mM PMSF, 40% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
GSTM1, also known as glutathione S-transferase Mu 1, is members of the phase ll detoxification enzyme family. This protein is cytosolic protein that belongs to the mu class of the GST superfamily. The eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. The mu class of enzymes functions in the detoxification of electrophilic compounds,

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including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. Also, it acts as a hormone binding protein and plays a role in maintaining hormone homeostasis in the body. Recombinant human GSTM1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

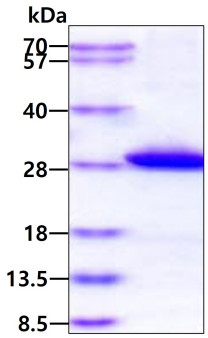
<ADP>MPMILGY WDIRGLAHAI RLLLEYTDSS YEEKKYTMGD APDYDRSQWL NEKFKLGLDF PNLPYLIDGA HKITQSNAIL CYIARKHNLC GETEEEKIRV DILENQTMDN HMQLGMICYN PEFEKLKPKY LEELPEKLKL YSEFLGKRPW FAGNKITFVD FLVYDVLDLH RIFEPKCLDA FPNLKDFISR FEGLEKISAY MKSSRFLPRP VFSKMAVWGN K<HHHHHH>

General References

Bogaards JJ., et al, (1992) Biochem. J. 286:383-8.
Strange RC., et al, (1992) Biochim. Biophys. Acta 1139:222-228.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.