

Glutathione S Transferase Mu 1 (GSTM1) Active Protein | GSTM1 active protein

Active Glutathione S Transferase Mu 1 (GSTM1)

CATALOG # AAA161759	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Glutathione S Transferase Mu 1 (GSTM1); Active Glutathione S Transferase Mu 1 (GSTM1); Glutathione S Transferase Mu 1; GST-M1; GST1; GSTM1-1; GSTM1a-1a; GSTM1b-1b; GTH4; GTM1; H-B; MU1; GST HB subunit 44; GSTM1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 97% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met1~Glu220
Applicable Applications for GSTM1 active protein	Activity Assay, Cell Culture
Species	Chicken
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	7.1
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

IMAGES



Bioactivity

Glutathione S-Transferases (GSTs) are members of the phase II detoxification enzyme family that conjugate glutathione to various electrophilic compounds, including metabolites generated by oxidative processes in the body, environmental toxins or carcinogens, and anti-cancer drugs. GSTM1 is a cytosolic protein that belongs to the mu class of the GST superfamily. GSTM1 catalyze the endogenous glutathione conjugation 1-Chloro-2,4-dinitrobenzene (CDNB), which can increase in the absorbance at 340 nm. The reaction was performed in adding 10 ul 200 mM glutathione (reduced) and 10 ul 100 mM CDNB in 980 ul 100 mM NaH2PO4 (pH7.0), rapidly mixed. Then add 50 ul mixed substrates to 50 ul different concentrations of recombinant chicken GSTM1, mix gently. Incubated at 37 degree C for 5min, then read at a wavelength of 340 nm. The specific activity of recombinant chicken GSTM1 is >2500 pmol/min/ug.



SDS-PAGE

Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for GSTM1 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	46048786
NCBI GeneID	395976
NCBI Accession #	NP_990421.1
NCBI GenBank Nucleotide #	NM_205090.1
UniProt Accession #	P20136
Molecular Weight	25,893 Da
NCBI Official Full Name	glutathione S-transferase 2
NCBI Official Synonym Full Names	glutathione S-transferase mu 2 (muscle)
NCBI Official Symbol	GSTM2
NCBI Protein Information	glutathione S-transferase 2; GST-CL2; GSTM1-1; GST class-mu; glutathione S-transferases CL2
UniProt Protein Name	Glutathione S-transferase 2
UniProt Gene Name	GSTM2
UniProt Entry Name	GSTM2_CHICK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/glutathione-s-transferase-mu-1-gstm1/161759>