

Datasheet for ABIN6239877

**GSTM1 Protein (AA 1-218) (His tag)****1** Image[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	GSTM1
Protein Characteristics:	AA 1-218
Origin:	Rat
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This GSTM1 protein is labelled with His tag.
Application:	Cell Culture (CC), Activity Assay (AcA)

## Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 95 %
Biological Activity Comment:	Glutathione S-transferase Mu 1 (GSTM1) belongs to the mu class. GSTM1 can detoxifying carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. Besides, uncoupling Protein 1 (UCP1) has been identified as an interactor of GSTM1, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat GSTM1 and recombinant rat UCP1. Briefly, GSTM1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to UCP1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-GSTM1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C . Finally, add 50µL stop solution

## Product Details

to the wells and read at 450nm immediately. The binding activity of of GSTM1 and UCP1 was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of GSTM1 with UCP1.

## Target Details

Target:	GSTM1
Alternative Name:	Glutathione S Transferase Mu 1 (GSTm1) ( <a href="#">GSTM1 Products</a> )
Background:	Alternative Names: GST-M1, GST1, GSTM1-1, GSTM1a-1a, GSTM1b-1b, GTH4, GTM1, H-B, MU1, GST HB subunit 4
Molecular Weight:	27kDa
UniProt:	<a href="#">P04905</a>
Pathways:	<a href="#">Negative Regulation of Transporter Activity</a>

## Application Details

Application Notes:	Isoelectric Point: 8.3
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

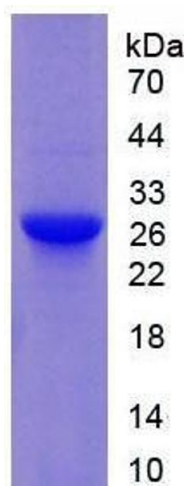


Image 1.