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Product Datasheet

Rat GSTM1 protein, His tag, Unconjugated GTX00356-PRO

Article Name	Rat GSTM1 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00356-PRO
Supplier Catalog Number	GTX00356-pro
Alternative Catalog Number	GTX00356-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Rat
Conjugation	Unconjugated
NCBI	24423
UniProt	P04905
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	Full length protein, N-terminal His-Tag, Met1~Lys218 (NP_058710.1)

Application Notes

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 100 μ l were then transferred to UCP1-coated microtiter wells and incubated for 2h at 37C. 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 37C. Finally, add 50 μ l stop solution to the wells and read at 450nm immediately. The binding activity of of GSTM1 and UCP1 was in a dose dependent manner.