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Product Datasheet

Human Thymidine Kinase 1 protein, His and GST tag, Unconjugated GTX00185-PRO

Article Name	Human Thymidine Kinase 1 protein, His and GST tag, Unconjugated
Biozol Catalog Number	GTX00185-PRO
Supplier Catalog Number	GTX00185-pro
Alternative Catalog Number	GTX00185-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	7083
UniProt	P04183
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	N-terminal His and GST-Tag, confidential (NP_003249.3)

Application Notes

Thymidine kinase 1 (TK1), is a human thymidine kinase. Thymidine kinase has been making a growing impact in the cancer research community. It has been found that elevated blood serum levels of TK-1 correlates with metastatic capabilities of the cancer and thereby can be used to detect malignant types of cancer, furthermore TK-1 has been found to show up in blood serum even before clinical symptoms even start to show. Besides, Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) has been identified as an interactor of TK1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human TK1 and recombinant human GAPDH. Briefly, TK1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ l were then transferred to GAPDH-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-TK1 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 TK1 and GAPDH was in a dose dependent manner.