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Product Datasheet

Human APRT protein, His tag, Unconjugated GTX00157-PRO

Article Name	Human APRT protein, His tag, Unconjugated
Biozol Catalog Number	GTX00157-PRO
Supplier Catalog Number	GTX00157-pro
Alternative Catalog Number	GTX00157-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	353
UniProt	P07741
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~Glu180 (NP_000476.1)

Application Notes

Adenine Phosphoribosyltransferase (APRT) is an enzyme involved in the purine nucleotide salvage pathway. It functions as a catalyst in the reaction between adenine and phosphoribosyl pyrophosphate (PRPP) to form AMP. Besides, Vascular Cell Adhesion Molecule 1 (VCAM1) has been identified as an interactor of APRT, thus a binding ELISA assay was conducted to detect the interaction of recombinant human APRT and recombinant human VCAM1. Briefly, APRT were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to VCAM1-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-APRT 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 µl stop solution to the wells and read at 450nm immediately. The binding activity of of APRT and VCAM1 was in a dose dependent manner.