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Product Datasheet

Human Apolipoprotein A1 protein, His tag, Unconjugated GTX00221-PRO

Article Name	Human Apolipoprotein A1 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00221-PRO
Supplier Catalog Number	GTX00221-pro
Alternative Catalog Number	GTX00221-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	335
UniProt	P02647
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-Tag, Gln122~Gln267 (NP_000030.1)

Application Notes

Apolipoprotein A1 (APOA1) is the major protein component of HDL particles in plasma. It is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. ApoA1 was also isolated as a prostacyclin (PGI₂) stabilizing factor, and thus may have an anticlotting effect. ApoA1 is often used as a biomarker for prediction of cardiovascular diseases. Besides, Haptoglobin (Hpt) has been identified as an interactor of APOA1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human APOA1 and recombinant human Hpt. Briefly, APOA1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to Hpt-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-APOA1 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 APOA1 and Hpt was in a dose dependent manner.