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Product Datasheet

Human CYP1B1 protein, His tag, Unconjugated GTX00418-PRO

Article Name	Human CYP1B1 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00418-PRO
Supplier Catalog Number	GTX00418-pro
Alternative Catalog Number	GTX00418-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	1545
UniProt	Q16678
Buffer	Reconstitute with 20mM Tris (pH8.0) and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris (pH8.0), 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, Asp374~Phe516 (NP_000095.2)

Application Notes	Cytochrome P450 family 1 subfamily B member 1 (CYP1B1) is an enzyme, Which belongs to the cytochrome P450 superfamily. CYP1B1 can catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids, and other lipids. Besides, Heat Shock Protein family B (small) member 2 (HSPb2) has been identified as an interactor of CYP1B1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human CYP1B1 and recombinant human HSPb2, CYP1B1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to HSPb2-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-CYP1B1 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 CYP1B1 and HSPb2 was in a dose dependent manner.
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