

Datasheet for ABIN6239866

CYP1A2 Protein (AA 2-231) (His tag,GST tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	CYP1A2
Protein Characteristics:	AA 2-231
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This CYP1A2 protein is labelled with His tag,GST tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His and GST Tag
Purity:	> 95 %
Biological Activity Comment:	<p>CYP1A2 (Cytochrome P450 1A2) belongs to the group of proteins which contains heme as a cofactor. CYP1A2 oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. Besides, ASAH1 (Acid ceramidase) has been identified as an interactor of CYP1A2 through affinity capture-MS. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human CYP1A2 and recombinant human ASAH1. Briefly, CYP1A2 were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to ASAH1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-CYP1A2 mAb, 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</p>

Product Details

minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately.

The binding activity of CYP1A2 and ASAH1 was shown in Figure 1, and this effect was in a dose dependent manner. The binding activity of CYP1A2 with ASAH1.

Target Details

Target:	CYP1A2
Alternative Name:	Cytochrome P450 1A2 (CYP1A2) (CYP1A2 Products)
Background:	Alternative Names: CP12, P3-450, P450(PA), Cytochrome P450, Family 1, Subfamily A, Polypeptide 2
Molecular Weight:	55kDa
UniProt:	P05177

Application Details

Application Notes:	Isoelectric Point: 8
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

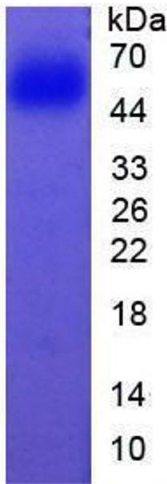


Image 1.