

# Active Recombinant Human CYP1A2 protein, His-GST-tagged

Cat. No. CYP1A2-1297H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human CYP1A2 protein(P05177)(2-231 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-231 aa
<b>Form</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	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 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm

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

**Molecular Mass** 55.2kDa

**Purity** > 95%

**Storage** Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

**Reconstitution** Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

**Gene Name** CYP1A2 cytochrome P450, family 1, subfamily A, polypeptide 2 [ Homo sapiens ]

**Official Symbol** CYP1A2

**Synonyms** CYP1A2; cytochrome P450, family 1, subfamily A, polypeptide 2; cytochrome P450, subfamily I (aromatic compound inducible), polypeptide 2; cytochrome P450 1A2; CP12; P3 450; CYP1A2; P450 form 4; cytochrome P450 4; cytochrome P(3)450; cytochrome P450-P3; dioxin-inducible P3-450; microsomal monooxygenase; xenobiotic monooxygenase; aryl hydrocarbon hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2; P3-450; P450(PA);

**Gene ID** 1544

**mRNA Refseq** NM\_000761

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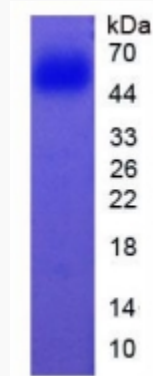
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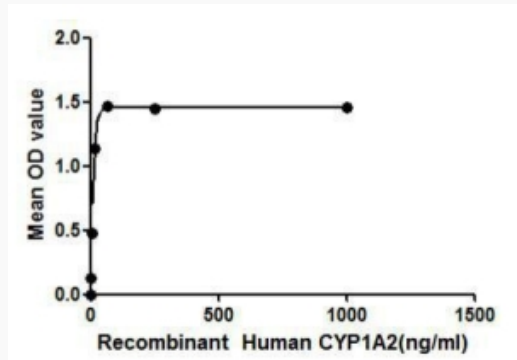
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UniProt ID P05177

SDS-PAGE



Activity



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