

## Recombinant Human CYP1A2 protein, His-tagged

Cat. No. CYP1A2-7960H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CYP1A2 aa. (Ala2~Ser231 (Accession # P05177)) fused with N-terminal His tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ala2~Ser231
<b>Description</b>	<p>This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. The protein encoded by this gene localizes to the endoplasmic reticulum and its expression is induced by some polycyclic aromatic hydrocarbons (PAHs), some of which are found in cigarette smoke. The enzyme's endogenous substrate is unknown; however, it is able to metabolize some PAHs to carcinogenic intermediates. Other xenobiotic substrates for this enzyme include caffeine, aflatoxin B1, and acetaminophen. The transcript from this gene contains four Alu sequences flanked by direct repeats in the 3' untranslated region.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	27 kDa as determined by SDS-PAGE reducing conditions.
<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)

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<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 7.2.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP
<b>Stability</b>	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage Buffer</b>	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

<b>Gene Name</b>	CYP1A2 cytochrome P450 family 1 subfamily A member 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CYP1A2
<b>Synonyms</b>	CYP1A2; cytochrome P450 family 1 subfamily A member 2; CP12; CYP1A2; P3-450; P450(PA); cytochrome P450 1A2; P450 form 4; aryl hydrocarbon hydroxylase; cholesterol 25-hydroxylase; cytochrome P(3)450; cytochrome P450 4; cytochrome P450, family 1, subfamily A, polypeptide 2; cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2; cytochrome P450-P3; dioxin-inducible P3-450;

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flavoprotein-linked monooxygenase; microsomal monooxygenase; xenobiotic monooxygenase

**Gene ID**

1544

**mRNA Refseq**


NM\_000761.4

**Protein Refseq**

NP\_000752.2

**UniProt ID**

P05177

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