

Recombinant Human CYP1A2 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human CYP1A2 aa. (Ala2~Ser231 (Accession # P05177)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala2~Ser231
Description	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.
Form	Freeze-dried powder
Molecular Mass	27 kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 7.2.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	CYP1A2 cytochrome P450 family 1 subfamily A member 2 [Homo sapiens (human)]
Official Symbol	CYP1A2
Synonyms	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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