

## Recombinant Human CYP1A1 Protein, GST-tagged

**Cat. No.** CYP1A1-2244H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human CYP1A1 full-length ORF ( AAH23019, 1 a.a. - 512 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	<p>This gene, CYP1A1, 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. This protein 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. The gene has been associated with lung cancer risk. A related family member, CYP1A2, is located approximately 25 kb away from CYP1A1 on chromosome 15. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2016]</p>
<b>Molecular Mass</b>	82.06 kDa
<b>AA Sequence</b>	MLFPISMSATEFLLASVIFCLVFWVIRASRPQVPKGLKNPPGPWGWPLIGHMLTLGK NPHLALSRMSQQYGDVLQIRIGSTPVVVL SGLDTIRQALVRQGDDFKGRPDLYTFTLI SNGQSMSFSPDSGPVWAARRRLAQNGLKSFSIASDPASSTSCYLEEHVSKEAEVLI

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STLQELMAGPGHFNPYRYVVVSVTNVICAICFGRRYDHNHQELLSLVNLNNNFGEVV  
 GSGNPADFIPLRYLPNPSLNAFKDLNEKFYSFMQKMVKEHYKTFEKGHIRDITDSLIE  
 HCQEKQLDENANVQLSDEKIINIVLDLFGAGFDTVTTAISWSLMYLMNPRVQRKIQE  
 ELDTVIGRSRRPRLSDRSHLPYMEAFILETRHSSFPFTIPHSTTRDTSLKGFYIPKG  
 RCVFVNQWQINHDQKLWVNPSEFLPERFLTPDGAIDKVLSEKVIIFGMGKRKCIGETI  
 ARWEVFLFLAILLQRVEFSVPLGVKVDMTPIYGLTMKHACCEHFQMLRS

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	CYP1A1 cytochrome P450, family 1, subfamily A, polypeptide 1 [ Homo sapiens ]
<b>Official Symbol</b>	CYP1A1
<b>Synonyms</b>	CYP1A1; cytochrome P450, family 1, subfamily A, polypeptide 1; CYP1, cytochrome P450, subfamily I (aromatic compound inducible), polypeptide 1; cytochrome P450 1A1; CP11; P1 450; P450 C; P450DX; CYPIA1; cytochrome P450-C; cytochrome P450-P1; cytochrome P450 form 6; xenobiotic monooxygenase; aryl hydrocarbon hydroxylase; flavoprotein-linked monooxygenase; cytochrome P1-450, dioxin-inducible; cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1; AHH; AHRR; CYP1; P1-450; P450-C;

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Gene ID 1543

mRNA Refseq NM\_000499

Protein Refseq NP\_000490

MIM 108330

UniProt ID P04798

Quality Control  
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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