

Recombinant Human CYP1A1 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human CYP1A1 full-length ORF (AAH23019, 1 a.a. - 512 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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]
Molecular Mass	82.06 kDa
AA Sequence	MLFPISMSATEFLLASVIFCLVFWVIRASRPQVPKGLKNPPGPWGWPLIGHMLTLGK NPHLALSRMSQQYGDVLQIRIGSTPVVVL SGLDTIRQALVRQGDDFKGRPDLYTFTLI SNGQSMSFSPDSGPVWAARRRLAQNGLKSFSIASDPASSTSCYLEEHVSKEAEVLI

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STLQELMAGPGHFNPYRYVVSVTNVICAICFGRRYDHNHQELLSLVNLNNNFGEVV
 GSGNPADFIPLRYLPNPSLNAFKDLNEKFYSFMQKMKVKEHYKTFEKGHIRDITDSLIE
 HCQEKQLDENANVQLSDEKIINIVLDLFGAGFDTVTTAISWSLMYLMNPRVQRKIQE
 ELDTVIGRSRRPRLSDRSHLPYMEAFILETRHSSFPFTIPHSTTRDTSLKGFYIPKG
 RCVFVNQWQINHDQKLWVNPSEFLPERFLTPDGAIDKVLSEKVIIFGMGKRKCIGETI
 ARWEVFLFLAILLQRVEFSVPLGVKVDMTPIYGLTMKHACCEHFQMQLRS

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CYP1A1 cytochrome P450, family 1, subfamily A, polypeptide 1 [Homo sapiens]

Official Symbol

CYP1A1

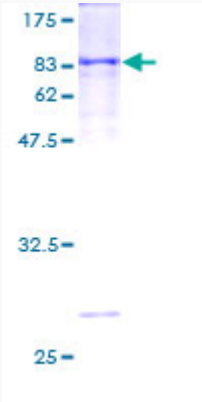
Synonyms

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.