

Recombinant Full Length Human CYP1A1 Protein

Cat. No. CYP1A1-114HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cytochrome P450 1A1 with N terminal proprietary tag; Predicted MWt 82.06 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	512 amino acids
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 enzymes 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.
Form	Liquid
Molecular Mass	82.060kDa inclusive of tags
AA Sequence	MLFPISMSATEFLLASVIFCLVFWVIRASRPQVPKGLKNP PGPWGWPLIGHMLTLGK NPHLALSRRMSQQYGDVLRIGS TPVVVLSGLDTRQALVRQGDDFKGRPDLYTFTL

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ISNGQS MSFSPDSGPVWAARRRLAQNGLKSFSIASDPASSTSCYLE EHVSKEAEVL
 ISTLQELMAGPGHFNPYRYVVVSVTNVICA ICFGRRYDHNHQELLSLVNLNNNFGEV
 VGSGNPADFIPIL RYLPNPSLNAFKDLNEKFYSFMQKMVKEHYKTFEKGHIRD ITDS
 LIEHCQEKQLDENANVQLSDEKIINIVLDFGAGFD TVTTAISWSLMYLVMNPRVQRK
 IQEELDTVIGRSRRPRLS DRSHLPYMEAFIETFRHSSFPFTIPHSTTRDTSKGFY I
 PKGRCVFNQWQINHDQKLWVNPSEFLPERFLTPDGAID KVLSEKVIIFGMGKRKCI
 GETIARWEVFLFLAILLQRVEF SVPLGVKVDMPYIYGLTMKHACCEHFQMQLRS

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

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

Gene ID [1543](#)

mRNA Refseq [NM_000499](#)

Protein Refseq [NP_000490](#)

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MIM	108330
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UniProt ID	P04798
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