

Recombinant Human CYP2A7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CYP2A7-2392H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CYP2A7 MS Standard C13 and N15-labeled recombinant protein (NP_000755) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. This protein localizes to the endoplasmic reticulum; its substrate has not yet been determined. This gene, which produces two transcript variants, is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q.
Molecular Mass	56.4 kDa
AA Sequence	MLASGLLLVALLACLTVMVLMVSWQQRKSRGKLPPGPTPLPFIGNYLQLNTEHICDSI MKFSECYGPVFTIHLGPRRAVVLGCHDAVREALVDQAEFSGRGEQATFDWVFKG YGVAFSNGERAKQLLRFAIATLRDFGVGKRGIEERIQEESGLIEAIRSTHGANIDPTF FLSRTVSNVISSIVFGDRFDYEDKEFLSLLSVMLGIFQFTSTSTGQLYEMFSSVMKHL PGPQQQAFKLLQGLEDFAKKVEHNQRTLDPNSPRDFIDSFLIRMQEEEEKNPNTIFY LKNLMMSTLNLFIAGTETVSTTLRYGFLLLMKHPEVEAKVHEEIDRVIGKNRQPKFED

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RAKMPYMEAVIHEIQRFQDVIPMSLARRVKKDTKFRDFFLPKGTEVFPMLGSLRDP
SFFSNPQDFNPQHFLDDKGQFKKSDAFVPFSIGKRYCFGEGLARMELFLFFTTVMQ
NFRLLKSSQSPKDIDVSPKHVGFATIPRNYTMSFLPRTTRTRPLEQKLISEEDLAANDILD
YKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CYP2A7 cytochrome P450 family 2 subfamily A member 7 [Homo sapiens (human)]

Official Symbol CYP2A7

Synonyms CYP2A7; cytochrome P450, family 2, subfamily A, polypeptide 7; cytochrome P450, subfamily IIA (phenobarbital inducible), polypeptide 7; cytochrome P450 2A7; CYP2A; cytochrome P450 IIA4; cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7; CPA7; CPAD; CYP1IA7; P450-IIA4;

Gene ID 1549

mRNA Refseq NM_000764

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Protein Refseq NP_000755

MIM 608054

UniProt ID P20853

SDS-PAGE



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