

Recombinant Human CYP2R1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CYP2R1-2123H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CYP2R1 MS Standard C13 and N15-labeled recombinant protein (NP_078790) 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 enzyme is a microsomal vitamin D hydroxylase that converts vitamin D into the active ligand for the vitamin D receptor. A mutation in this gene has been associated with selective 25-hydroxyvitamin D deficiency.
Molecular Mass	57.4 kDa
AA Sequence	MWKLWRAEEGAAALGGALFLLLALGVRQLLKQRRPMGFPPGPPGLPFIGNIYSLA ASSELPVHYMRKQSQVYGEIFSLDLGGISTVVLNGYDVVKECLVHQSEIFADRPCLP LFMKMTKMGGLLNSRYGRGWVDHRRRLAVNSFRYFGYGQKSFESKILEETKFFNDI ETYKGRPFDFKQLITNAVSNITNLIIFGERFTYEDTDFQHMIELFSENVELAASASVFLY NAFPWIGILPFGKHQQLFRNAAVVYDFLSRLIEKASVNRKPQLPQHFDVAYLDEMDQ GKNDPSSTFSKENLIFSVGELIAGTETTTNVLRWAILFMALYPNIQGQVQKEIDLIMG PNGKPSWDDKCKMPYTEAVLHEVLRFCNIVPLGIFHATSEDAVVRGYSIPKGTTVITN

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LYSVHFDEKYWRDPEVFHPERFLDSSGYFAKKEALVPFSLGRRHCLGEHLARMEMF
LFFTALLQRFHLHFPHELVPDLKPRLGMTLQPQPYLICAERRTRTRPLEQKLISEEDL
AANDILDYKDDDDKV

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 CYP2R1 cytochrome P450 family 2 subfamily R member 1 [Homo sapiens (human)]

Official Symbol CYP2R1

Synonyms CYP2R1; cytochrome P450, family 2, subfamily R, polypeptide 1; vitamin D 25-hydroxylase; cytochrome P450 2R1; cytochrome P450, family 2, R1; MGC4663;

Gene ID 120227

mRNA Refseq NM_024514

Protein Refseq NP_078790

MIM 608713

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UniProt ID

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