

## Recombinant Human CYP2R1 Protein, GST-tagged

**Cat. No.** CYP2R1-2269H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CYP2R1 full-length ORF ( NP_078790.2, 1 a.a. - 501 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 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. [provided by RefSeq, Jul 2008]</p>                                                                           |
| <b>Molecular Mass</b>   | 83.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | <p>MWKLWRAEEGAAALGGALFLLLFALGVRQLLKQRRPMGFPPGPPGLPFIGNIYSLA<br/>         ASSELPHVYMRKQSQVYGEIFSLDLGGISTVVLNGYDVVKECLVHQSEIFADRPCLP<br/>         LFMKMTKMGGLLNSRYGRGWVDHRRRLAVNSFRYFGYGQKSFESKILEETKFFNDI<br/>         ETYKGRPFDFKQLITNAVSNITNLIIFGERFTYEDTDFQHMIELFSENVELAASASVFLY<br/>         NAFPWIGILPFGKHQQLFRNAAVVYDFLSRLIEKASVNRKPQLPQHFDVDAYLDEMDQ<br/>         GKNDPSSTFSKENLIFSVGELIAGTETTTNVLRWAILFMALYPNIQGQVQKEIDLIMG<br/>         PNGKPSWDDKCKMPYTEAVLHEVLRFCNIVPLGIFHATSEDAVVRGYSIPKGTTVITN<br/>         LYSVHFDEKYWRDPEVFHPERFLDSSGYFAKKEALVPFSLGRRHCLGEHLARMEMF</p> |

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LFFTALLQRFHLHFPHELVPDLKPRLGMTLQPQPYLICAERR

**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**

CYP2R1 cytochrome P450, family 2, subfamily R, polypeptide 1 [ Homo sapiens ]

**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

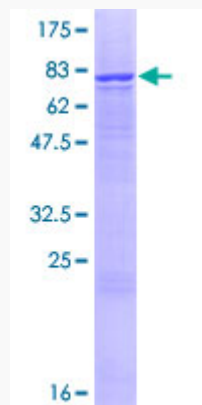
**UniProt ID**

Q6VVX0

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**Quality Control****Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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