

## Recombinant Human CYP24A1, GST-tagged

Cat. No. CYP24A1-251H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CYP24A1(415 a.a. - 514 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
<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.</p> <p>This mitochondrial protein initiates the degradation of 1,25-dihydroxyvitamin D<sub>3</sub>, the physiologically active form of vitamin D<sub>3</sub>, by hydroxylation of the side chain. In regulating the level of vitamin D<sub>3</sub>, this enzyme plays a role in calcium homeostasis and the vitamin D endocrine system. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.</p>
<b>Molecular Mass</b>	36.74 kDa
<b>AA Sequence</b>	LMLNTQVLGSSSEDNFEDSSQFRPERWLQEKEKINPFAHLPPFGVGKRMCIARRLAEL QLHLALCWIVRKYDIQATD NEPVEMLHSGTLVPSRELPIAFCQR
<b>Applications</b>	ELISA; WB-Re; AP; Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.

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<b>Storage</b>	Store at -80oC. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CYP24A1 cytochrome P450, family 24, subfamily A, polypeptide 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CYP24A1
<b>Synonyms</b>	CYP24A1; cytochrome P450, family 24, subfamily A, polypeptide 1; CYP24, cytochrome P450, subfamily XXIV (vitamin D 24 hydroxylase); 1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial; CP24; P450 CC24; 24-OHase; cytochrome P450 24A1; cytochrome P450-CC24; vitamin D 24-hydroxylase; exo-mitochondrial protein; vitamin D(3) 24-hydroxylase; 1,25-@dihydroxyvitamin D3 24-hydroxylase; cytochrome P450, subfamily XXIV (vitamin D 24-hydroxylase); HCAI; CYP24; P450-CC24; MGC126273; MGC126274
<b>Gene ID</b>	1591
<b>mRNA Refseq</b>	NM_000782
<b>Protein Refseq</b>	NP_000773
<b>MIM</b>	126065
<b>UniProt ID</b>	Q07973
<b>Chromosome Location</b>	20q13

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<b>Pathway</b>	Biological oxidations; Cytochrome P450 - arranged by substrate type; Defective CYP11B1 causes Adrenal hyperplasia 4 (AH4)
<b>Function</b>	1-alpha,25-dihydroxyvitamin D3 24-hydroxylase activity; 25-hydroxycholecalciferol-24-hydroxylase activity; heme binding

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