

Recombinant Human CYP24A1, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human CYP24A1(415 a.a. - 514 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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 mitochondrial protein initiates the degradation of 1,25-dihydroxyvitamin D3, the physiologically active form of vitamin D3, by hydroxylation of the side chain. In regulating the level of vitamin D3, 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.
Molecular Mass	36.74 kDa
AA Sequence	LMLNTQVLGSSSEDNFEDSSQFRPERWLQEKEKINPFAHLPFGVGKRMCI GRRRLAEL QLHLALCWIVRKYDIQATD NEPVEMLHSGTLVPSRELPIAFCQR
Applications	ELISA; WB-Re; AP; Array
Notes	Best use within three months from the date of receipt of this protein.

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Storage	Store at -80oC. 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	CYP24A1 cytochrome P450, family 24, subfamily A, polypeptide 1 [Homo sapiens (human)]
Official Symbol	CYP24A1
Synonyms	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
Gene ID	1591
mRNA Refseq	NM_000782
Protein Refseq	NP_000773
MIM	126065
UniProt ID	Q07973
Chromosome Location	20q13

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

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