

25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial (Cyp27b1), partial Recombinant Protein | Cyp27b1 recombinant protein

Recombinant Mouse 25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial (Cyp27b1), partial

CATALOG # AAA115815	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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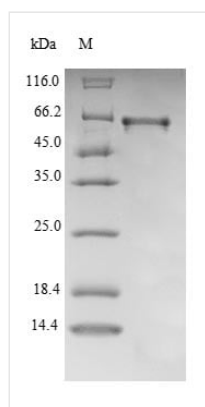
PRODUCT SYNONYMS

25-hydroxyvitamin D-1 alpha hydroxylase; mitochondrial (Cyp27b1); partial; Recombinant Mouse 25-hydroxyvitamin D-1 alpha hydroxylase; mitochondrial; EC=1.14.13.13; 25-OHD-1 alpha-hydroxylase; 25-hydroxyvitamin D(3) 1-alpha-hydroxylase; VD3 1A hydroxylase; Calcidiol 1-monooxygenase; Cytochrome P450 subfamily XXVIIIB polypeptide 1; Cytochrome P450C1; Cyp27b1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-507aa; Full Length
Sequence	MTQAVKLASR VFHRIHLPLQ LDASLGSRGS ESVLRLSDI PGPSTLSFLA ELFCKGGLSR LHELQVHGAA RYGPIWGSF GTLRVYVAD PTLVEQLLRQ ESHCPERCSF SSWAEHRRRH QRACGLLTAD GEEWQRLRSL LAPLLLRPQA AAGYAGTLDN VVRDLVRRLR RQRGRGSGLP GLVLDVAGEF YKFGLESIGA VLLGSRLGCL EAEVPPDTET FIHAVGSVFV STLLTMAMPN WLHHLIPGPW ARLCRDWDQM FAFAQRHVEL REGEAAMRNQ GKPEEDMPDG HHLTHFLFRE KVSQSVGN VTELLAGVD TVSNTLSWTL YELSRHPDVQ TALHSEITAG TRGSCAHPHG TALSQPLLK AVIKEVRLRY PVVPGNSRVP DRDIRVGNVYV IPQDTLVSLC HYATSRDPTQ FPDPSNFNPA RWLGEGPTPH PFASLPFGFG KRSCIGRRLA EELQMALSQ ILTHFEVLPE PGALPIKPMRTVLPERSI NLQFVDR
Species	Mus musculus (Mouse)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Cyp27b1 recombinant protein	Catalyzes the conversion of 25-hydroxyvitamin D3 (25(OH)D3) to 1-alpha,25-dihydroxyvitamin D3 (1alpha,25(OH)2D3), and of 24,25-dihydroxyvitamin D3 (24,25(OH)2D3) to 1-alpha,24,25-trihydroxyvitamin D3 (1alpha,24,25(OH)3D3). Is also active with 25-hydroxy-24-oxo-vitamin D3. Plays an important role in normal bone growth, calcium metabolism, and tissue differentiation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	227497562
NCBI GeneID	13115
NCBI Accession #	NP_034139.2
NCBI GenBank Nucleotide #	NM_010009.2
UniProt Accession #	O35084
Molecular Weight	60.2 kDa
NCBI Official Full Name	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
NCBI Official Synonym Full Names	cytochrome P450, family 27, subfamily b, polypeptide 1
NCBI Official Symbol	Cyp27b1
NCBI Official Synonym Symbols	Vdr; Cp2b; Cyp1; Pddr; Vdd1; Vddr; Cyp40; Vddrl; Cyp27b; P450c1
NCBI Protein Information	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial; P450VD1alpha; 1alpha(OH)ase; VD3 1A hydroxylase; cytochrome p450 27B1; cytochrome P450, 27b1; cytochrome P450C1 alpha; cytochrome P450VD1-alpha; calcidiol 1-monooxygenase; 25(OH)D 1alpha-hydroxylase; 25-OHD-1 alpha-hydroxylase; 25-hydroxyvitamin D3 1alpha-hydroxylase; 25-hydroxyvitamin D(3) 1-alpha-hydroxylase; cytochrome P450 subfamily XXVIIb polypeptide 1; cytochrome P450, 40 (25-hydroxyvitamin D3 1 alpha-hydroxylase); 25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial precursor (25-OHD-1 alpha-hydroxylase) (25-hydroxyvitamin D3 1-alpha-hydroxylase) (VD3 1A hydroxylase) (P450C1 alpha) (P450VD1-alpha)
UniProt Protein Name	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
UniProt Gene Name	Cyp27b1
UniProt Synonym Gene Names	Cyp27b; Cyp40; VD3 1A hydroxylase
UniProt Entry Name	CP27B_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.