



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

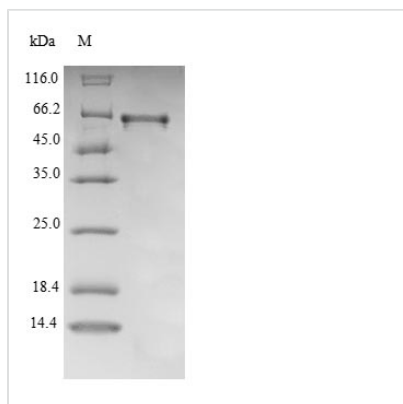
<b>Product Code</b>	CSB-EP006406MO
<b>Relevance</b>	Catalyzes the conversion of 25-hydroxyvitamin D3 (25(OH)D3) to 1-alpha,25-dihydroxyvitamin D3 (1alpha,25(OH)2D3), and of 24,25-dihydroxyvitamin D3 (24,25(OH)2D3) to 1-alpha,24,25-trihydroxyvitamin D3 (1alpha,24,25(OH)3D3). Is also active with 25-hydroxy-24-oxo-vitamin D3. Plays an important role in normal bone growth, calcium metabolism, and tissue differentiation.
<b>Abbreviation</b>	Recombinant Mouse Cyp27b1 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	O35084
<b>Alias</b>	25-OHD-1 alpha-hydroxylase 25-hydroxyvitamin D(3) 1-alpha-hydroxylase
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MTQAVKLASRVFHHRIHLPLQLDASLGSRGSESVLRSLSDIPGPSTLSFLAELFC KGGLSRLHELQVHGAARYGPIWSGSFGTLRTVYVADPTLVEQLLRQESHCP RCSFSSWAEHRRRHQRACGLLTADGEEWQRLRSLLAPLLLRPQAAAGYAGTL DNVVRDLVRRRLRRQRGRGSGPLGLVLDVAGEFYKFGLESIGAVLLGSRLGCL AEVPPDTETFIHAVGSVFVSTLLTMAMPNWLHHLIPGPWARLCRDWDQMFAF AQRHVELREGEAAMRNQKGPEEDMPSGHHLTHFLFREKVSQSVGNVTELL LAGVDTVSNTLSWTLYELSRHPDVQTALHSEITAGTRGSCAHPHGTALSQPL LKAVIKEVLRLLYPVPGNSRVPDRDIRVGNYVIPQDTLVSLCHYATSRDPTQFP DPNSFNPARWLGEPTPHPFASLPFGFGKRSCIGRRRLAELELQMALSQLTHF EVLPEPGALPIKPMTRTVLPERSINLQFVDR
<b>Source</b>	E.coli
<b>Target Names</b>	Cyp27b1
<b>Protein Names</b>	Recommended name: 25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial EC= 1.14.13.13Alternative name(s): 25-OHD-1 alpha-hydroxylase 25- hydroxyvitamin D(3) 1-alpha-hydroxylase Short name= VD3 1A hydroxylase Calcidiol 1-monooxygen
<b>Expression Region</b>	1-507aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged



**Mol. Weight** 60.2kDa

**Protein Length** Full Length

**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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