



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

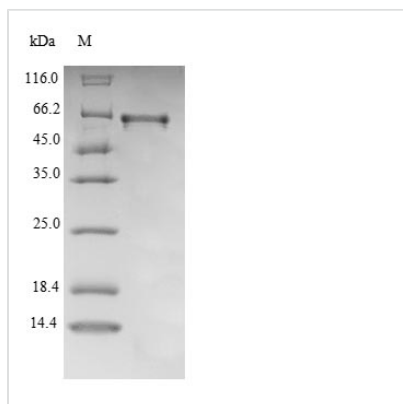
Product Code	CSB-EP006406MO
Relevance	Catalyzes the conversion of 25-hydroxyvitamin D3 (25(OH)D3) to 1-alpha,25-dihydroxyvitamin D3 (1alpha,25(OH)2D3), and of 24,25-dihydroxyvitamin D3 (24,25(OH)2D3) to 1-alpha,24,25-trihydroxyvitamin D3 (1alpha,24,25(OH)3D3). Is also active with 25-hydroxy-24-oxo-vitamin D3. Plays an important role in normal bone growth, calcium metabolism, and tissue differentiation.
Abbreviation	Recombinant Mouse Cyp27b1 protein
Storage	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.
Uniprot No.	O35084
Alias	25-OHD-1 alpha-hydroxylase 25-hydroxyvitamin D(3) 1-alpha-hydroxylase
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MTQAVKLASRVFHHRIHLPLQLDASLGSRGSESVLRSLSDIPGPSTLSFLAELFC KGGLSRLHELQVHGAARYGPIWSGSFGTLRTVYVADPTLVEQLLRQESHCP RCSFSSWAEHRRRHQRACGLLTADGEEWQRLRSLAPLLLQPAAAGYAGTL DNVVRDLVRRRLRRQRGRGSGPLGLVLDVAGEFYKFGLESIGAVLLGSRLGCL AEVPPDTETFIHAVGSVVFVSTLLTMAMPNWLHHLIPGPWARLCRDWDQMFAF AQRHVELREGEAAMRNQKGPEEDMPSGHHLTHFLFREKVSIVGNVTELL LAGVDTVSNTLSWTLYELSRHPDVQTALHSEITAGTRGSCAHPHGTA LSQLPLKAVIKEVLRLLYPVPGNSRVPDRDIRVGNYPQDTLVSLCHYATSRDPTQFP DPNSFNPARWLGEPTPHPFASLPFGFGKRSCIGRRRLAELELQMALSQLTHF EVLPEPGALPIKPMTRTVLVPERSINLQFVDR
Source	E.coli
Target Names	Cyp27b1
Protein Names	Recommended name: 25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial EC= 1.14.13.13 Alternative name(s): 25-OHD-1 alpha-hydroxylase 25- hydroxyvitamin D(3) 1-alpha-hydroxylase Short name= VD3 1A hydroxylase Calcidiol 1-monooxygen
Expression Region	1-507aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	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

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.