



Recombinant Human Vitamin D 25-hydroxylase (CYP2R1)

Product Code	CSB-EP744288HU-B
Abbreviation	CYP2R1
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.	Q6VVX0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MWKLWRAEEG AAALGGALFL LLFALGVRQL LKQRRPMGFP PGPPGLPFIG NIYSLAASSE LPHVYMRKQS QVYGEIFSLD LGGISTVVLN GYDVVKECLV HQSEIFADRP CLPLFMKMTK MGLLNSRYG RGWVDHRRLA VNSFRYFGYG QKSFESKILE ETKFFNDAIE TYKGRPFDFK QLITNAVSNI TNLIIFGERF TYEDTDFQHM IELFSENVEL AASASVFLYN AFPWIGILPF GKHQQLFRNA AVVYDFLSRL IEKASVNRKP QLPQHFDVAY LDEMDOGKND PSSTFSKENL IFSVGELIIA GTETTTNVLR WAILFMALYP NIQQQVQKEI DLIMGPNGKP SWDDKCKMPY TEAVLHEVLR FCNIVPLGIF HATSEDAVVR GYSIPKGTTV ITNLYSVHFD EKYWRDPEVF HPERFLDSSG YFAKKEALVP FSLGRRHCLG EHLARMEMFL FFTALLQRFH LHPHELVPD LKPRLGMTLQ POPYLICAER R
Source	E.coli
Target Names	CYP2R1
Protein Names	Recommended name: Vitamin D 25-hydroxylase EC= 1.14.13.15 Alternative name(s): Cytochrome P450 2R1
Expression Region	1-501
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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 enzyme is a microsomal vitamin D hydroxylase that converts vitamin D into the active ligand for the vitamin D receptor. A mutation in this gene has been associated with selective 25-hydroxyvitamin D deficiency.
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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