Recombinant Mouse Cyp2r1 Protein, Myc/DDK-tagged

Cat. No. Cyp2r1-2418M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length cytochrome P450, family 2, subfamily r, polypeptide 1 (Cyp2r1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	A cytochrome P450 monooxygenase involved in activation of vitamin D precursors. Catalyzes hydroxylation at C-25 of both forms of vitamin D, vitamin D2 and D3 (calciol). Can metabolize vitamin D analogs/prodrugs 1alpha-hydroxyvitamin D2 (doxercalciferol) and 1alpha-hydroxyvitamin D3 (alfacalcidol) forming 25-hydroxy derivatives. Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase).
Molecular Mass	57.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Cyp2r1 cytochrome P450, family 2, subfamily r, polypeptide 1 [Mus musculus (house mouse)]
Official Symbol	Cyp2r1
Synonyms	Cyp2r1; cytochrome P450, family 2, subfamily r, polypeptide 1; vitamin D 25-hydroxylase; cytochrome P450, 2r1; EC 1.14.14.24
Gene ID	244209
mRNA Refseq	NM_177382
Protein Refseq	NP_796356
UniProt ID	Q6VVW9

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