

Recombinant Mouse Cyp4x1 Protein, Myc/DDK-tagged

Cat. No. Cyp4x1-2423M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length cytochrome P450, family 4, subfamily x, polypeptide 1 (Cyp4x1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	A cytochrome P450 monooxygenase that selectively catalyzes the epoxidation of the last double bond of the arachidonoyl moiety of anandamide, potentially modulating endocannabinoid signaling. Has no hydroxylase activity toward various fatty acids, steroids and prostaglandins. 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	59 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
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Cyp4x1 cytochrome P450, family 4, subfamily x, polypeptide 1 [Mus musculus (house mouse)]
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Official Symbol	Cyp4x1
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Synonyms	CYP4X1; cytochrome P450, family 4, subfamily x, polypeptide 1; cytochrome P450, 4x1; CYP_a; A230025G20; Cyp4a28-ps
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Gene ID	81906
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mRNA Refseq	NM_001003947
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Protein Refseq	NP_001003947
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UniProt ID	Q6A152
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