

Recombinant Mouse Cyp2s1 Protein, Myc/DDK-tagged

Cat. No. Cyp2s1-2419M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length cytochrome P450, family 2, subfamily s, polypeptide 1 (Cyp2s1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	A cytochrome P450 monooxygenase involved in the metabolism of retinoids and eicosanoids. In epidermis, may contribute to the oxidative metabolism of all-trans-retinoic acid. For this activity, 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 (NADPH--hemoprotein reductase). Additionally, displays peroxidase and isomerase activities toward various oxygenated eicosanoids such as prostaglandin H2 (PGH2) and hydroperoxyeicosatetraenoates (HPETEs). Independently of cytochrome P450 reductase, NADPH, and O2, catalyzes the breakdown of PGH2 to hydroxyheptadecatrienoic acid (HHT) and malondialdehyde (MDA), which is known to act as a mediator of DNA damage.
Molecular Mass	55.6 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

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

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 Cyp2s1 cytochrome P450, family 2, subfamily s, polypeptide 1 [Mus musculus (house mouse)]

Official Symbol Cyp2s1

Synonyms CYP2S1; cytochrome P450, family 2, subfamily s, polypeptide 1; cytochrome P450 2S1; CYPIIS1; cytochrome P450, 2s1; C79779; AU041727; 1200011C15Rik

Gene ID 74134

mRNA Refseq NM_028775

Protein Refseq NP_083051

UniProt ID Q9DBX6

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