

Recombinant Human CYP4X1, His-tagged

Cat. No. CYP4X1-11793H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP4X1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	160-509a.a.
Description	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. The expression pattern of a similar rat protein suggests that this protein may be involved in neurovascular function in the brain.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	CYP4X1 cytochrome P450, family 4, subfamily X, polypeptide 1 [Homo sapiens]
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Official Symbol	CYP4X1
Synonyms	CYP4X1; cytochrome P450, family 4, subfamily X, polypeptide 1; cytochrome P450 4X1; MGC40051; CYP4X1;
Gene ID	260293
mRNA Refseq	NM_178033
Protein Refseq	NP_828847
UniProt ID	Q8N118
Chromosome Location	1p33
Pathway	Serotonergic synapse, organism-specific biosystem; acetone degradation I (to methylglyoxal), organism-specific biosystem; bupropion degradation, organism-specific biosystem; melatonin degradation I, organism-specific biosystem; nicotine degradation II, organism-specific biosystem; nicotine degradation III, organism-specific biosystem; superpathway of melatonin degradation, organism-specific biosystem;
Function	aromatase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen;

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