

Recombinant Human CYP2F1, GST-tagged

Cat. No. CYP2F1-11776H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP2F1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	142-302a.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. This protein localizes to the endoplasmic reticulum and is known to dehydrogenate 3-methylindole, an endogenous toxin derived from the fermentation of tryptophan, as well as xenobiotic substrates such as naphthalene and ethoxycoumarin. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q.
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 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	CYP2F1 cytochrome P450, family 2, subfamily F, polypeptide 1 [Homo sapiens]
Official Symbol	CYP2F1
Synonyms	CYP1IF1; Cytochrome P450 2F1; cytochrome P450, family 2, subfamily F, polypeptide 1; EC=1.14.14.1; flavoprotein-linked monooxygenase; CYP1IF1; microsomal monooxygenase; EC 1.14.14.1; xenobiotic monooxygenase
Gene ID	1572
mRNA Refseq	NM_000774.3
Protein Refseq	NP_000765.2
MIM	124070
UniProt ID	P24903
Chromosome Location	19q13.2
Pathway	Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, conserved biosystem; Phase 1 - Functionalization of compounds, organism-specific biosystem; Tryptophan metabolism, organism-specific biosystem
Function	aromatase activity; electron carrier activity; heme binding; iron ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one

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