

Recombinant Human CYP2D6

Cat. No. CYP2D6-26689TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length human Cytochrome P450 2D6 produced in SF9 insect cells, is a glycosylated, polypeptide chain. 56 kDa.
Species	Human
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 metabolize as many as 20% of commonly prescribed drugs. Its substrates include debrisoquine, an adrenergic-blocking drug; sparteine and propafenone, both anti-arrhythmic drugs; and amitriptyline, an anti-depressant. The gene is highly polymorphic in the population; certain alleles result in the poor metabolizer phenotype, characterized by a decreased ability to metabolize the enzymes substrates. The gene is located near two cytochrome P450 pseudogenes on chromosome 22q13.1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Biological activity	CYP2D6-26689TH reacts with autoimmune hepatitis patient sera.
Form	Liquid
Storage buffer	Preservative: None Constituents: 20% Glycerol, 400mM Sodium chloride, 16mM Sodium phosphate buffer, 0.08mM Potassium iodide, pH 7.6
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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Full Length
Full L.

GENE INFORMATION

Gene Name

CYP2D6 cytochrome P450, family 2, subfamily D, polypeptide 6 [Homo sapiens]

Official Symbol

CYP2D6

Synonyms

CYP2D6; cytochrome P450, family 2, subfamily D, polypeptide 6; CYP2D7AP, CYP2D7BP, CYP2D7P2, CYP2D8P2, CYP2DL1, cytochrome P450, family 2, subfamily D, polypeptide 7 pseudogene 2 , cytochrome P450, family 2, subfamily D, polypeptide 8 pseudogene 2 , cy

Gene ID

1565

mRNA Refseq

NM_000106

Protein Refseq

NP_000097

MIM

124030

Uniprot ID

P10635

**Chromosome
Location**

22q13.1

Pathway

Biological oxidations, organism-specific biosystem; Codeine and morphine metabolism, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem;

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Function

aromatase activity; drug binding; electron carrier activity; heme binding; heme binding;

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