

## Recombinant Human CYP2D6

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

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Full Length human Cytochrome P450 2D6 produced in SF9 insect cells, is a glycosylated, polypeptide chain. 56 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>         | <p>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.</p> |
| <b>Biological activity</b> | CYP2D6-26689TH reacts with autoimmune hepatitis patient sera.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage buffer</b>      | Preservative: None<br>Constituents: 20% Glycerol, 400mM Sodium chloride, 16mM Sodium phosphate buffer, 0.08mM Potassium iodide, pH 7.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>             | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| Full Length                | Full L.                                                                                                                                                                                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>           | CYP2D6 cytochrome P450, family 2, subfamily D, polypeptide 6 [ Homo sapiens ]                                                                                                                                                                                                                                        |
| <b>Official Symbol</b>     | CYP2D6                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>            | 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                                                         |
| <b>Gene ID</b>             | 1565                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_000106                                                                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>      | NP_000097                                                                                                                                                                                                                                                                                                            |
| <b>MIM</b>                 | 124030                                                                                                                                                                                                                                                                                                               |
| <b>Uniprot ID</b>          | P10635                                                                                                                                                                                                                                                                                                               |
| <b>Chromosome Location</b> | 22q13.1                                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | 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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