



# Recombinant Human Cytochrome P450 2D6 (CYP2D6)

<b>Product Code</b>	CSB-EP006420HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P10635
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>MGLEALVPLA VIVAIFLLLV DLMHRRQRWA ARYPPGPLPL PGLGNLLHVD            FQNTPYCFDQ LRRRFGDVFS LQLAWTPVVV LNGLAAVREA LVTHGEDTAD            RPPVPITQIL GFGPRSQGVF LARYGPAWRE QRRFSVSTLR NLGLGKKSLE            QWVTEEAACL CAAFANHSGR PFRPNGLLDK AVSNVIASLT CGRRFEYDDP            RFLRLLDLAQ EGLKEESGFL REVLNAVAVL LHIPALAGKV LRFQKAFLTQ            LDELLTEHRM TWDPAQPPRD LTEAFLAEME KAKGNPESSF NDENLRIVVA            DLFSAGMVT TTTLAWGLLL MILHPDVQRR VQQEIDDVIG QVRRPEMGDQ            AHMPYTTAVI HEVQRFGDIV PLGVTHMTSR DIEVQGFRIP KGTTLITNLS            SVLKDEAVWE KPFRFHPEHF LDAQGHFVKP EAFLPFSAGR RACLGEPLAR            MELFLFFTS LQHFSFSVPT GQPRPSHHGV FAFLVSPSPY ELCAVPR</p>
<b>Source</b>	E.coli
<b>Target Names</b>	CYP2D6
<b>Protein Names</b>	Recommended name: Cytochrome P450 2D6 EC= 1.14.14.1 Alternative name(s): CYP1D6 Cytochrome P450-DB1 Debrisoquine 4-hydroxylase
<b>Expression Region</b>	1-497
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</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-arrythmic drugs; and amitryptiline, 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 enzyme s 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>



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.