

## CYP2E1 Protein, Mouse, Recombinant (His)

## General Information

Synonyms:	Cytochrome P450-J;Cyp2e-1;Cytochrome P450 2E1;Cyp2e1;CYPIIE1;4-nitrophenol 2-hydroxylase;Cyp2e;Cytochrome P450-ALC
Protein Construction:	2-493 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q05421
Molecular Weight:	60.8 kDa (predicted)
AA Sequence:	AVLGITVALLVWIATLLLVSIWKQIYRSWNLPPGPFPIFFGNIFQLDLKDIPKSLTKLAKRFGPVFTLHLGQRRIV VLHGYKAVKEVLLNHNKNEFSGRGDIPVFQYKNGKIIFNNGPTWKDVRRFSLSLRDWGMGKQGNEARIQRE AHFLVEELKKTGGQPFDPFTFLIGCAPCNVIADILFNKRFDYDDKKCLELMSLFNENFYLLSTPWIQAYNYFSDYL QYLPGSHRKVMKNVSEIRQYTLGKAKEHLKSLDINCPDVDCLLIEMEKEKHSQEPMYTMENISVTLADLFFA GTETTSTLLRYGLLILMKYPEIEEKLHEEIDRVIGPSRAPAVRDRMNPYMDAVVHEIQRFINLVPSNLPHEATR DTVFRGYVIPKGTVVPTLDSLLFDNYEFPDPETFKPEHFLNENGGKFKYSDYFKAFSAGKRVCVGEGLARMELF LLLSAILQHFNLSLVDPKIDIDLSPVTIGFGSIPREFKLCVIPRS

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

A cytochrome P450 monooxygenase involved in the metabolism of fatty acids. Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (NADPH--hemoprotein reductase). Catalyzes the hydroxylation of carbon-hydrogen bonds. Hydroxylates fatty acids specifically at the omega-1 position displaying the highest catalytic activity for saturated fatty acids. May be involved in the oxidative metabolism of xenobiotics.

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