

## Recombinant Human CYP2U1 cell lysate

**Cat. No.** CYP2U1-435HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>    | 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 enzyme is a hydroxylase that metabolizes arachidonic acid, docosahexaenoic acid, and other long chain fatty acids. |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                            |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                                                                        |

### GENE INFORMATION

|                        |                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CYP2U1 cytochrome P450, family 2, subfamily U, polypeptide 1 [ Homo sapiens ]                |
| <b>Official Symbol</b> | CYP2U1                                                                                       |
| <b>Synonyms</b>        | CYP2U1; cytochrome P450, family 2, subfamily U, polypeptide 1; cytochrome P450 2U1; P450TEC; |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>             | 113612                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_183075                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_898898                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 610670                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | Q7Z449                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 4q25                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Miscellaneous substrates, organism-specific biosystem; |
| <b>Function</b>            | aromatase activity; electron carrier activity; heme binding; metal ion binding;                                                                                                                                                                                                                                                                                                             |

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