# Active Recombinant Cynomolgus CYP2C8 Protein

**Cat. No.** CYP2C8-124C **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant cynomolgus CYP2C8 protein and human CYP-reductase without tag were coexpressed in E. coli. |
| **Species** | Cynomolgus |
| **Source** | E.coli |
| **Description** | Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. |
| **Bio-activity** | Cytochrome c Reductase Activity: 145 nmol/min/mg protein<br>P450 Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 50 mM potassium phosphate buffer (pH 7.4) containing 5 mM magnesium chloride and an NADPH generating system [5 mM glucose 6-phosphate, 1 mM NADP+, 1 U/ml glucose 6-phosphate dehydrogenase])<br>Activity: Paclitaxel 6α-hydroxylase<br>Linear with time up to: 20 min(Determined at 15 μM substrate, using a P450 concentration of 125 pmol/ml)<br>Linear with P450 up to: 100 pmol/ml(Determined at 15 μM substrate, using an incubation time of 20 min)<br>Vmax: 0.14 pmol/min/pmol CYP<br>Km: 18 μM |

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| **Usage** | For laboratory (research) purposes only |
| **Storage** | Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice. |
| **Concentration** | P450 Concentration: 3.1 nmol/ml<br>Protein Concentration: 8.3 mg/ml<br>Specific P450 Content: 373 pmol/mg protein |
| **Storage Buffer** | 50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA |

## GENE INFORMATION

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| **Gene Name** | CYP2C8 cytochrome P450 family 2 subfamily C member 8 [ Macaca fascicularis (crab-eating macaque) ] |
| **Official Symbol** | CYP2C8 |
| **Synonyms** | CYP2C8; cytochrome P450 family 2 subfamily C member 8; CYP2C20; CYPIIC20; cytochrome P450 2C20; Cytochrome P450 2C20; Cytochrome P450-MK1; Cytochrome P450-MKMP13; P-450 2C; cytochrome P-450 2C |
| **Gene ID** | 102117212 |
| **mRNA Refseq** | NM_001283763 |
| **Protein Refseq** | NP_001270692 |
| **UniProt ID** | P33262 |

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