

## Active Recombinant Cynomolgus CYP3A4 Protein

Cat. No. CYP3A4-128C Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant cynomolgus CYP3A4 protein and human CYP-reductase without tag were coexpressed in E. coli.
<b>Species</b>	Cynomolgus
<b>Source</b>	E.coli
<b>Description</b>	Catalyzes nifedipine and nilvadipine oxidations.
<b>Bio-activity</b>	<p>Cytochrome c Reductase Activity: 171 nmol/min/mg protein</p> <p>P450 Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 100 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])</p> <p>Activity: Testosterone 6<math>\beta</math>-hydroxylase</p> <p>Linear with time up to: 15 min(Determined at 15 <math>\mu</math>M substrate, using a P450 concentration of 25 pmol/ml)</p> <p>Linear with P450 up to: 60 pmol/ml(Determined at 15 <math>\mu</math>M substrate, using an incubation time of 5 min)</p> <p>Vmax: 4.8 pmol/min/pmol CYP</p> <p>Km: 17 <math>\mu</math>M</p>
<b>Usage</b>	For laboratory (research) purposes only
<b>Storage</b>	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.

 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

**Concentration**  
 P450 Concentration: 5.0 nmol/ml  
 Protein Concentration: 11.7 mg/ml  
 Specific P450 Content: 427 pmol/mg protein

**Storage Buffer** 50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

## GENE INFORMATION

**Gene Name** CYP3A4 cytochrome P450 family 3 subfamily A member 4 [ *Macaca fascicularis* (crab-eating macaque) ]

**Official Symbol** CYP3A4

**Synonyms** CYP3A4; cytochrome P450 family 3 subfamily A member 4; CYP3A8; CYP11A8; cytochrome P450 3A8; Cytochrome P-450-MK2; Cytochrome P450 3A8; Cytochrome P450-MKNF2; P-450 3A; cytochrome P-450 3A

**Gene ID** 102144258

**mRNA Refseq** NM\_001284534

**Protein Refseq** NP\_001271463

**UniProt ID** P33268

 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