

Active Recombinant Pig CYP3A39 Protein

Cat. No. CYP3A39-133P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant pig CYP3A39 protein and CYP-reductase without tag were coexpressed in E. coli.
Species	Pig
Source	E.coli
Description	Cytochromes P450 are a group of heme-thiolate monooxygenases.
Bio-activity	Cytochrome c Reductase Activity: 200 nmol/min/mg protein 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]) Activity: Testosterone 6β-hydroxylase Linear with time up to: 30 min(Determined at 32 μM substrate, using a P450 concentration of 175 pmol/ml) Linear with P450 up to: 250 pmol/ml(Determined at 32 μM substrate, using an incubation time of 20 min) Vmax: 0.41 pmol/min/pmol CYP Km: 58 μM
Usage	For laboratory (research) purposes only
Storage	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  Fax: 1-631-938-8127

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

Concentration	P450 Concentration: 9.9 nmol/ml Protein Concentration: 19.5 mg/ml Specific P450 Content: 508 pmol/mg protein
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Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
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GENE INFORMATION

Gene Name	CYP3A39 cytochrome P450 3A39 [<i>Sus scrofa</i> (pig)]
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Official Symbol	CYP3A39
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Synonyms	CYP3A39; cytochrome P450 3A39; CYP3A22; cytochrome P450 3A39; cytochrome P450 3A22
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Gene ID	403322
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mRNA Refseq	NM_214422
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Protein Refseq	NP_999587
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UniProt ID	O97689
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