

## Active Recombinant Pig CYP1A2 Protein

Cat. No. CYP1A2-132P Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant pig CYP1A2 protein and CYP-reductase without tag were coexpressed in E. coli.
<b>Species</b>	Pig
<b>Source</b>	E.coli
<b>Description</b>	Biased expression in liver (RPKM 201.6) and mixtures (RPKM 79.4)
<b>Bio-activity</b>	<p>Cytochrome c Reductase Activity: 145 nmol/min/mg protein</p> <p>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])</p> <p>Activity: 7-ethoxyresorufin O-deethylase</p> <p>Linear with time up to: 4 min(Determined at 0.2 <math>\mu</math>M substrate, using a P450 concentration of 1 pmol/ml)</p> <p>Linear with P450 up to: 10 pmol/ml(Determined at 0.2 <math>\mu</math>M substrate, using an incubation time of 30 sec)</p> <p>Vmax: 2.6 pmol/min/pmol CYP</p> <p>Km: 0.03 <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.

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<b>Concentration</b>	P450 Concentration: 10.0 nmol/ml Protein Concentration: 19.3 mg/ml Specific P450 Content: 518 pmol/mg protein
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<b>Storage Buffer</b>	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
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## GENE INFORMATION

<b>Gene Name</b>	CYP1A2 cytochrome P450, family 1, subfamily A, polypeptide 2 [ <i>Sus scrofa</i> (pig) ]
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<b>Official Symbol</b>	CYP1A2
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<b>Synonyms</b>	CYP1A2; cytochrome P450, family 1, subfamily A, polypeptide 2; cytochrome P450 1A2
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<b>Gene ID</b>	100152910
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<b>mRNA Refseq</b>	NM_001159614
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<b>Protein Refseq</b>	NP_001153086
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<b>UniProt ID</b>	F1SJ26
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