

Active Recombinant Pig CYP1A2 Protein

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

SPECIFICATION

Product Overview	Recombinant pig CYP1A2 protein and CYP-reductase without tag were coexpressed in E. coli.
Species	Pig
Source	E.coli
Description	Biased expression in liver (RPKM 201.6) and mixtures (RPKM 79.4)
Bio-activity	Cytochrome c Reductase Activity: 145 nmol/min/mg protein 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]) Activity: 7-ethoxyresorufin O-deethylase Linear with time up to: 4 min(Determined at 0.2 μM substrate, using a P450 concentration of 1 pmol/ml) Linear with P450 up to: 10 pmol/ml(Determined at 0.2 μM substrate, using an incubation time of 30 sec) Vmax: 2.6 pmol/min/pmol CYP Km: 0.03 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: 10.0 nmol/ml Protein Concentration: 19.3 mg/ml Specific P450 Content: 518 pmol/mg protein
----------------------	---

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

GENE INFORMATION

Gene Name	CYP1A2 cytochrome P450, family 1, subfamily A, polypeptide 2 [<i>Sus scrofa</i> (pig)]
------------------	--

Official Symbol	CYP1A2
------------------------	--------

Synonyms	CYP1A2; cytochrome P450, family 1, subfamily A, polypeptide 2; cytochrome P450 1A2
-----------------	--

Gene ID	100152910
----------------	-----------

mRNA Refseq	NM_001159614
--------------------	--------------

Protein Refseq	NP_001153086
-----------------------	--------------

UniProt ID	F1SJ26
-------------------	--------

 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