

## Active Recombinant Human CYP1A2 Protein

Cat. No. CYP1A2-02H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CYP1A2 and human CYP-low reductase are coexpressed in Escherichia coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids.
<b>Form</b>	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
<b>Bio-activity</b>	Specific P450 Content:100 pmol/mg protein; Cytochrome c Reductase Activity:12 nmol/min/mg protein; P450 Activity:7-ethoxycoumarin O-deethylase; Linear with time up to:20 min; Linear with P450 up to:20 pmol/ml; Vmax:0.18 pmol/min/pmol CYP; Km:2.3 μM
<b>Notes</b>	1.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]. 2.Determined at 2 μM substrate, using a P450 concentration of 10 pmol/ml. 3.Determined at 2 μM substrate, using an incubation time of 5 min

 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

<b>Storage</b>	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
----------------	---

<b>Concentration</b>	10 mg/ml
----------------------	----------

## GENE INFORMATION

<b>Gene Name</b>	CYP1A2
------------------	--------

<b>Official Symbol</b>	CYP1A2
------------------------	--------

<b>Synonyms</b>	CP12; CYP1A2; P3-450; P450(PA)
-----------------	--------------------------------

<b>Gene ID</b>	1544
----------------	------

<b>mRNA Refseq</b>	NM_000761.5
--------------------	-------------

<b>Protein Refseq</b>	NP_000752.2
-----------------------	-------------

<b>MIM</b>	124060
------------	--------

<b>UniProt ID</b>	P05177
-------------------	--------

 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