

## Recombinant Rat Cyp19a1 Protein, His-tagged

**Cat. No.** Cyp19a1-369R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Cyp19a1 Protein (Leu196-Val373) with N-His tag was expressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	Leu196-Val373
<b>Description</b>	Enables aromatase activity. Involved in several processes, including animal organ development; carboxylic acid metabolic process; and cellular hormone metabolic process. Located in several cellular components, including dendritic spine; neuronal cell body; and synaptic vesicle. Used to study endometriosis and polycystic ovary syndrome. Biomarker of hypertension; hypothyroidism; placental insufficiency; polycystic ovary syndrome; and protein-energy malnutrition. Human ortholog(s) of this gene implicated in several diseases, including aromatase excess syndrome; bladder neck obstruction; esophagus adenocarcinoma; ovarian disease (multiple); and prostate disease (multiple). Orthologous to human CYP19A1 (cytochrome P450 family 19 subfamily A member 1).
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 24.3 kDa Accurate Molecular Mass: 24 kDa

 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>Purity</b>	> 97%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	Cyp19a1 cytochrome P450, family 19, subfamily a, polypeptide 1 [ <i>Rattus norvegicus</i> (Norway rat) ]
<b>Official Symbol</b>	Cyp19a1
<b>Synonyms</b>	Cyp19a1; cytochrome P450, family 19, subfamily a, polypeptide 1; Cyp19; Cyp19a; p450arom; Aromatase; aromatase; CYPXIX; Cytochrome P450, 19, aromatase; P-450AROM; cytochrome P-450AROM; cytochrome P450 19A1; cytochrome P450 19A1-like; cytochrome P450 family 19 subfamily a; cytochrome P450, subfamily 19; estrogen synthase; estrogen synthetase; EC 1.14.14.14
<b>Gene ID</b>	25147

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mRNA Refseq [NM\\_017085](#)

Protein Refseq [NP\\_058781](#)

UniProt ID [P22443](#)

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