Recombinant Mouse Cyp19a1 Protein, His-tagged

Cat. No. Cyp19a1-368M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cyp19a1 Protein (Leu196-Val373) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Leu196-Val373
Description	Enables oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen. Acts upstream of or within several processes, including negative regulation of macrophage chemotaxis; reproductive structure development; and testosterone biosynthetic process. Predicted to be located in several cellular components, including dendritic spine; neuronal cell body; and synaptic vesicle. Predicted to be active in endoplasmic reticulum. Is expressed in central nervous system; early conceptus; gonad; retina; and stomach. Used to study Sjogren's syndrome and aromatase excess syndrome. Human ortholog(s) of this gene implicated in several diseases, including aromatase excess syndrome; bladder neck obstruction; endometriosis (multiple); ovarian disease (multiple); and prostate disease (multiple). Orthologous to human CYP19A1 (cytochrome P450 family 19 subfamily A member 1).
Form	Freeze-dried powder

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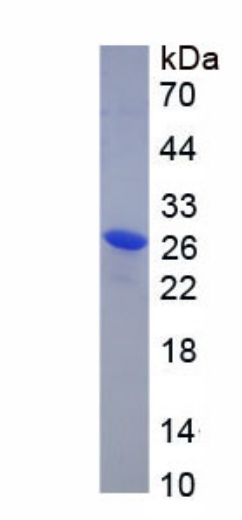
Molecular Mass	Predicted Molecular Mass: 24.3 kDa Accurate Molecular Mass: 26 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate 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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Cyp19a1 cytochrome P450, family 19, subfamily a, polypeptide 1 [Mus musculus (house mouse)]
Official Symbol	Cyp19a1
Synonyms	Cyp19a1; cytochrome P450, family 19, subfamily a, polypeptide 1; Ar; ArKO; Int5; Cyp19; Int-5; p450arom; aromatase; CYPXIX; cytochrome P-450AROM; cytochrome P450 19A1; cytochrome P450, 19, aromatase; estrogen synthase; EC 1.14.14.14
Gene ID	13075

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mRNA Refseq	NM_007810
Protein Refseq	NP_031836
UniProt ID	P28649



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