

Recombinant Human CYP19A1

Cat. No. CYP19A1-26393TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Aromatase with a N terminal proprietary tag: predicted molecular weight 49.98 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	219 amino acids
Description	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. This protein localizes to the endoplasmic reticulum and catalyzes the last steps of estrogen biosynthesis, three successive hydroxylations of the A ring of androgens. Mutations in this gene can result in either increased or decreased aromatase activity; the associated phenotypes suggest that estrogen functions both as a sex steroid hormone and in growth or differentiation. The gene expresses two transcript variants.
Molecular Weight	49.980kDa inclusive of tags
Tissue specificity	Brain, placenta and gonads.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MVLEMLNPIHYNITSIVPEAMPAATMPVLLLTGLFLLVWN YEGTSSIPGPGGYCMGIGP LISHGRFLWMGIGSACNYYNRV YGEFMRVWISGEETLIISKSSSMFHIMKHNHYSSR FGSKL GLQCIGMHEKGIIFNNNPELWKTTRPFFMKALSGPGLVRM VTVCAESLKTH LDRLEEVTNESGYVDVLTLLRRVMLDTSN TLFLRIPLDGTEIFTLTS
Sequence Similarities	Belongs to the cytochrome P450 family.

GENE INFORMATION

Gene Name	CYP19A1 cytochrome P450, family 19, subfamily A, polypeptide 1 [Homo sapiens]
Official Symbol	CYP19A1
Synonyms	CYP19A1; cytochrome P450, family 19, subfamily A, polypeptide 1; CYP19, cytochrome P450, subfamily XIX (aromatization of androgens); cytochrome P450 19A1; ARO; ARO1; aromatase; CPV1; CYAR; P 450AROM;
Gene ID	1588
mRNA Refseq	NM_000103
Protein Refseq	NP_000094
MIM	107910

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Uniprot ID	P11511
Chromosome Location	15q21
Pathway	Biological oxidations, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone => androstenedione => estrone, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone =>
Function	aromatase activity; electron carrier activity; electron carrier activity; heme binding; heme binding;

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