

Recombinant Human ARO, His-tagged

Cat. No. ARO-3637H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Aromatase (ARO)
Species	Human
Source	E.coli
ProteinLength	503
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.
Form	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Molecular Mass	22.3kDa
Endotoxin	<1.0eu per 1ug (determined by the lal</1.0eu
Purity	>95%

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Applications	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Notes	Small volumes of ARO recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Reconstitution	Reconstitute in sterile PBS, pH 7.2-pH 7.4.
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	CYP19A1 cytochrome P450, family 19, subfamily A, polypeptide 1 [Homo sapiens]
Official Symbol	CYP19A1
Synonyms	ARO; ARO1; CPV1; CYAR; CYP19; CYPXIX; P-450AROM; aromatase; estrogen synthase; estrogen synthetase; cytochrome P-450AROM; cytochrome P450 19A1; microsomal monooxygenase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily XIX (aromatization of androgens)

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Gene ID	1588
mRNA Refseq	NM_000103
Protein Refseq	NP_000094
MIM	107910
UniProt ID	P11511
Chromosome Location	15q21.1
Pathway	Biological oxidations, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone =>androstenedione =>estrone, conserved biosystem
Function	aromatase activity; heme binding

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