

Recombinant Human CYP19A1 protein

Cat. No. CYP19A1-432H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP19A1(1 - 181 aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1 - 181 aa
Form	Protein lyophilized in sterile PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, 300 mM Imidazole, pH 8.0). Trehalose (5-8%) and mannitol (5-8%) protectants were added before lyophilization.
Molecular Mass	26 kDa
AA Sequence	MVLEMLNPIHYNITSIVPEAMPAATMPVLLLTGLFLLVWNYEGTSSIPGPGGYCMGIGP LISHGRFLWMGIGSACN YYNRVYGEFMRVWISGEETLIISKSSSMFHIMKHNNHYSSR FGSKLGLQCIGMHEKGIIFNNNPWLKTTTRPFFMK ALSGPGLVRMVTVCESLKTHTL LLFTPASVN
Purity	> 85%, by SDS-PAGE with Coomassie Brilliant Blue staining
Storage	Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder. Storage of Reconstituted Protein: Short-term storage: Store at 2-8 centigrade for two weeks. Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for

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reconstitution. Avoid repeat freeze-thaw cycles.

Reconstitution

Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage. Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature (see below).

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; estrogen synthase; estrogen synthetase; cytochrome P-450AROM; microsomal monooxygenase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily XIX (aromatization of androgens); CYP19; CYPXIX; P-450AROM; MGC104309;

Gene ID

1588

mRNA Refseq

NM_000103

Protein Refseq

NP_000094

MIM

107910

UniProt ID

P11511

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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 => androstenedione => estrone, conserved biosystem;
Function	aromatase activity; electron carrier activity; electron carrier activity; heme binding; heme binding; metal ion binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; 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; oxygen binding;

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