



CYP19A1 blocking peptide (DAG-P1391)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen 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. [provided by RefSeq, Jul 2008] |
| Specificity | Brain, placenta and gonads. |
| Purity | > 90 % by SDS-PAGE. |
| Conjugate | Unconjugated |
| Applications | BL |
| Sequence Similarities | Belongs to the cytochrome P450 family. |
| Format | Liquid |
| Buffer | Preservative: 0.02% Thimerosal (merthiolate) Constituents: 0.1% BSA, PBS, pH 7.2 |
| Preservative | 0.02% Thimerosal |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: 0.02% Thimerosal (merthiolate) Constituents: 0.1% BSA, PBS, pH 7.2 |

GENE INFORMATION

Gene Name [CYP19A1 cytochrome P450, family 19, subfamily A, polypeptide 1 \[Homo sapiens \(human\) \]](#)

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| Official Symbol | CYP19A1 |
| Synonyms | CYP19A1; cytochrome P450, family 19, subfamily A, polypeptide 1; 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); |
| Entrez Gene ID | 1588 |
| mRNA Refseq | NM_000103.3 |
| Protein Refseq | NP_000094.2 |
| UniProt ID | P11511 |
| Chromosome Location | 15q21.1 |
| 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; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Endogenous sterols, organism-specific biosystem; Estrogen biosynthesis, organism-specific biosystem; FSH signaling pathway, organism-specific biosystem; Integr |
| Function | aromatase activity; electron carrier activity; heme binding; iron ion binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one ato |