

Product datasheet for TP305890

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Aromatase (CYP19A1) (NM_000103) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Human cytochrome P450, family 19, subfamily A, polypeptide

1 (CYP19A1), transcript variant 1, full length, with C-terminal MYC/DDK tag, expressed in

HEK293 cells, 20 µg

Species: Human Expression Host: HEK293

Expression cDNA Clone >RC205890 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MVLEMLNPIHYNITSIVPEAMPAATMPVLLLTGLFLLVWNYEGTSSIPGPGYCMGIGPLISHGRFLWMGI GSACNYYNRVYGEFMRVWISGEETLIISKSSSMFHIMKHNHYSSRFGSKLGLQCIGMHEKGIIFNNNPEL WKTTRPFFMKALSGPGLVRMVTVCAESLKTHLDRLEEVTNESGYVDVLTLLRRVMLDTSNTLFLRISLDE SAIVVKIQGYFDAWQALLIKPDIFFKISWLYKKYEKSVKDLKDAIEVLIAEKRRRISTEEKLEECMDFAT ELILAEKRGDLTRENVNQCILEMLIAAPDTMSVSLFFMLFLIAKHPNVEEAIIKEIQTVIGERDIKIDDI QKLKVMENFIYESMRYQPVVDLVMRKALEDDVIDGYPVKKGTNIILNIGRMHRLEFFPKPNEFTLENFAK NVPYRYFQPFGFGPRGCAGKYIAMVMMKAILVTLLRRFHVKTLQGQCVESIQKIHDLSLHPDETKNMLEM

IFTPRNSDRCLEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 57.7 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.





Aromatase (CYP19A1) (NM_000103) Human Recombinant Protein - TP305890

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 000094

Locus ID: 1588

UniProt ID: <u>P11511</u>, <u>A0A024R5S8</u>, <u>Q8TCA4</u>, <u>Q8IYG4</u>

RefSeq Size: 4422 Cytogenetics: 15q21.2 RefSeq ORF: 1509

Synonyms: ARO; ARO1; CPV1; CYAR; CYP19; CYPXIX; P-450AROM

Summary: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The

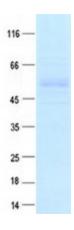
cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and catalyzes the last steps of estrogen biosynthesis. Mutations in this gene can result in either increased or decreased aromatase activity; the associated phenotypes suggest that estrogen functions both as a sex steroid hormone and in growth or differentiation. Alternative promoter use and alternative splicing results in multiple transcript

variants that have different tissue specificities. [provided by RefSeq, Dec 2016]

Protein Families: Druggable Genome, P450

Protein Pathways: Androgen and estrogen metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified CYP19A1 protein (Cat# TP305890). The protein was produced from HEK293T cells transfected with CYP19A1 cDNA clone (Cat# [RC205890]) using MegaTran 2.0 (Cat# [TT210002]).