

Recombinant Full Length Human CYP19A1 Protein, C-Flag-tagged

Cat. No. CYP19A1-1732HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CYP19A1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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. 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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	57.7 kDa
AA Sequence	MVLEMLNPIHYNITSIVPEAMPAATMPVLLLTGLFLLVWNYEGTSSIPGPGYCMGIGP LISHGRFLWMGI GSACNYYNRVYGEFMRVWISGEETLIISKSSSMFHIMKHNHYSSR FGSKLGLQCIGMHEKGIIFNNNP EL WKTTRPFFMKALSGPGLVRMVTVC A E S L K T H L

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DRLEEVTNESGYVDVLTLLRRVMLDTSNTLFLRISLDE SAIVVKIQGYFDAWQALLIK
 PDIFFKISWLYKKYEKSVKDLKDAIEVLIAEKRRRISTEEKLEECMDFAT ELILAEKRG
 DLTRENVNQCIEMLIAAPDTMSVSLFFMLFLIAKHPNVEEAIKEIQTVIGERDIKIDDI
 QKLKVMENFIYESMRYQPVVDLVMRKALEDDVIDGYPVKKGTNIILNIGRMHRLEFFP
 KPNEFTLENFAK NVPYRYFQPFQFGPRGCAGKYIAMVMMKAILVTLLRRFHVKTQ
 GQCVESIQLIHDLSLHPDETKNMLEM
 IFTPRNSDRCLEHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, P450
Protein Pathways	Androgen and estrogen metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

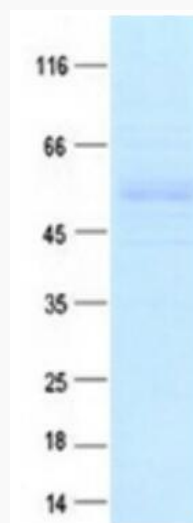
Gene Name CYP19A1 cytochrome P450 family 19 subfamily A member 1 [Homo sapiens (human)]

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Official Symbol	CYP19A1
Synonyms	ARO; ARO1; CPV1; CYAR; CYP19; CYPXIX; P-450AROM
Gene ID	1588
mRNA Refseq	NM_000103.4
Protein Refseq	NP_000094.2
MIM	107910
UniProt ID	P11511



Coomassie blue staining of purified CYP19A1 protein.