



Recombinant Human Aromatase (CYP19A1)

Product Code	CSB-MP006394HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P11511
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MVLEMLNPIH YNITSIVPEA MPAATMPVLL LTGLFLLVWN YEGTSSIPGP GYCMGIGPLI SHGRFLWMGI GSACNYNRY YGEFMRVWIS GEETLIISKS SSMFHIMKHN HYSSRFGSKL GLQCIGMHEK GIIFNNPEL WKTTRPFFMK ALSGPGLVRM VTVCAESLKT HLDRLLEVTN ESGYVDVLT LRRVMLDTSN TLFLRIPLDE SAIVVKIQGY FDAWQALLIK PDIFFKISWL YKKEYKSVKD LKDAIEVLIA EKRRRISTEE KLEECMDFAT ELILAEKRGD LTRENVNQC LEMLIAAPDT MSVSLFFMLF LIAKHPNVEE AIIKEIQTVI GERDIKIDDI QKLKVMENFI YESMRYQPVV DLVMRKALED DVIDGYPVKK GTNIILNIGR MHRLEFFPKP NEFTLENFAK NVPYRYFQPF GFGPRGCAGK YIAMVMMKAI LVTLLRRFHV KTLQGQCVES IQKIHDLSLH PDETKNMLEM IFTPRNSDR LEH
Source	Mammalian cell
Target Names	CYP19A1
Protein Names	Recommended name: Cytochrome P450 19A1 EC= 1.14.14.1 Alternative name(s): Aromatase CYPXIX Cytochrome P-450AROM Estrogen synthase
Expression Region	1-503
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.