



Recombinant Rat Steroid 17-alpha-hydroxylase/17,20 lyase (Cyp17a1)

Product Code	CSB-EP006392RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P11715
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MWELVGLLLL ILAYFFWVKS KTPGAKLPRS LPSLPLVGSL PFLPRRGHMH VNFFKLQEKY GPIYSLRLGT TTTVIIGHYQ LAREVLIKKG KEFSGRPQMV TQSLSDQGK GVAFADAGSS WHLHRKLVFS TFSLFKDGQK LEKLIQAEAK SLCDMMLAHD KESIDLSTPI FMSVTNIICA ICFNISYEKN DPKLTAIKTF TEGIVDATGD RNLVDIFPWL TIFPNKGLEV IKGYAKVRNE VLTGIFEKCR EKFDSQSISS LTDILIQAKM NSDNNNSCEG RDPDVFSDRH ILATVGDIFG AGIETTTTTL KWILAFLVHN PEVKKKIQKE IDQYVGFSTR PTFNDRSHLL MLEATIREVL RIRPVAPMLI PHKANVDSSI GEFTVPKDTH VVNLWALHH DENEWDQPDQ FMPEFLDPT GSHLITPTQS YLPGFAGPRS CIGEALARQE LFVFTALLQ RFDLDVSDDK QLPRLEGDPK VVFLIDPFKV KITVRQAWMD AQAEVST
Source	E.coli
Target Names	Cyp17a1
Protein Names	Recommended name: Steroid 17-alpha-hydroxylase/17,20 lyase EC= 1.14.99.9 Alternative name(s): CYPXVII Cytochrome P450 17A1 Cytochrome P450-C17 Short name= Cytochrome P450c17
Expression Region	1-507
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. It has both 17alpha-hydroxylase and 17,20-lyase activities and is a key enzyme in the steroidogenic pathway that produces progestins, mineralocorticoids, glucocorticoids, androgens, and estrogens. Mutations in this gene are associated with isolated steroid-17 alpha-hydroxylase deficiency, 17-alpha-hydroxylase/17,20-lyase deficiency, pseudohermaphroditism, and adrenal hyperplasia.



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.