

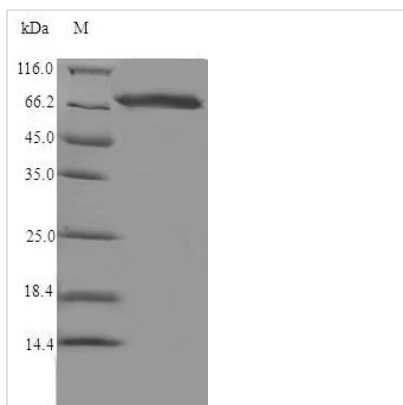


Recombinant Rat Steroid 17-alpha-hydroxylase/17,20 lyase (Cyp17a1)

Product Code	CSB-EP006392RA
Relevance	Conversion of pregnenolone and progesterone to their 17-alpha-hydroxylated products and subsequently to dehydroepiandrosterone (DHEA) and androstenedione. Catalyzes both the 17-alpha-hydroxylation and the 17,20-lyase reaction. Involved in sexual development during fetal life and at puberty.
Abbreviation	Recombinant Rat Cyp17a1 protein
Storage	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.
Uniprot No.	P11715
Alias	17-alpha-hydroxyprogesterone aldolase CYPXVII Cytochrome P450 17A1 Cytochrome P450-C17 Short name: Cytochrome P450c17
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MWELVGLLLLILAYFFWVKSTPGAKLPRSLPSLPLVGSLPFLPRRGHMHVNF FKLQEKYGPISLRLGTTTTVIIGHYQLAREVLIKKGKEFSGRPQMVTQSLLSDQ GKGVAFADAGSSWHLHRKLVFSTFSLFKDGGQKLEKLCQEAKSLCDMMLAHD KESIDLSTPIFMSVTNIICAICFNISYEKNDPKLTAIKTFTEGIVDATGDRNLVDIFP WLTIFPNKGLEVIKGYAKVRNEVLTGIFEKCREKFDSQSISSLTDILIQAKMNSD NNNSCEGRDPDVFSDRHILATVGDIAGAGIETTTVLKWILAFVLHNPEVKKKIQ KEIDQYVGFSRTPTFNDRSHLLMLEATIREVLRIRPVAPMLIPHKANVDSSIGEF TVPKDTHTVVNLWALHHDENEWDQPDQFMPEFLDPTGSHLITPTQSYLPFG AGPRSCIGEALARQELFVFTALLLQRFDLVDSDDKQLPRLEGDPKVVFLIDPFK VKITVRQAWMDAQAEVST
Research Area	Metabolism
Source	E.coli
Target Names	Cyp17a1
Expression Region	1-507aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	73.3kDa
Protein Length	Full Length



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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.