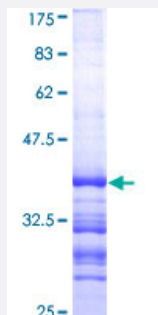


CYP11A1 (Human) Recombinant Protein (Q01)

Catalog # H00001583-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CYP11A1 partial ORF (AAH32329, 412 a.a. - 521 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	KTLVQVAIYALGREPTFFFDPENFDPTRWLSKDKNITYFRNLGFGWGVVRQCLGRRIAELEMIFLIN MLENFRVEIQHLSDVGTTFNILMPEKPISFTFWPFNQEATQQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.95
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CYP11A1

Entrez GeneID [1583](#)

GeneBank Accession# [BC032329](#)

Protein Accession# [AAH32329](#)

Gene Name CYP11A1

Gene Alias CYP11A, P450SCC

Gene Description cytochrome P450, family 11, subfamily A, polypeptide 1

Omim ID [118485 201710](#)

Gene Ontology [Hyperlink](#)

Gene 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 mitochondrial inner membrane and catalyzes the conversion of cholesterol to pregnenolone, the first and rate-limiting step in the synthesis of the steroid hormones. Two transcript variants encoding different isoforms have been found for this gene. The cellular location of the smaller isoform is unclear since it lacks the mitochondrial-targeting transit peptide. [provided by RefSeq]

Other Designations cholesterol 20-22 desmolase|cholesterol monooxygenase (side-chain cleaving)|cytochrome P450, subfamily XIA|cytochrome P450, subfamily XIA (cholesterol side chain cleavage)|cytochrome P450C11A1|steroid 20-22-lyase

Pathway

- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)

Disease

- [Adenocarcinoma](#)
- [Asperger Syndrome](#)
- [Autistic Disorder](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Celiac Disease](#)
- [Colorectal Neoplasms](#)
- [Disease Progression](#)
- [Ductus Arteriosus](#)
- [Endometrial Neoplasms](#)
- [Fibrocystic Breast Disease](#)
- [Genetic Predisposition to Disease](#)
- [Genital Neoplasms](#)
- [Hyperandrogenism](#)
- [Hypertension](#)
- [Infant](#)
- [Lung Neoplasms](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Ovarian Hyperstimulation Syndrome](#)
- [Polycystic Ovary Syndrome](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)

- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Recurrence](#)
- [Social Perception](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)