

Cholesterol side-chain cleavage enzyme (CYP11A1) Recombinant Protein | CYP11A1 recombinant protein

Recombinant Human Cholesterol side-chain cleavage enzyme, mitochondrial (CYP11A1)

CATALOG # AAA113157	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
-------------------------------	---

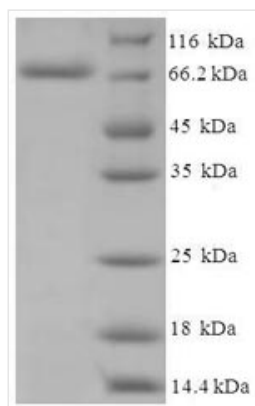
PRODUCT SYNONYMS

Cholesterol side-chain cleavage enzyme (CYP11A1); Recombinant Human Cholesterol side-chain cleavage enzyme; mitochondrial (CYP11A1); CYP11A1; Cholesterol desmolase; Cytochrome P450 11A1; Cytochrome P450(scc); CYP11A1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	40-521aa; Full Length of Mature Protein
Sequence	ISTRSPRPFN EIPSPGDNGW LNLYHFWRET GTHKVHLHHV QNFQKYGPIY REKLGNVESV YVIDPEDVAL LFKSEGNPE RFLIPPWVAY HQYYQRPIGV LLKKSAAWKK DRVALNQEVM APEATKNFLP LLDVSRDFV SVLHRRRIKKA GSGNYSGLDIS DDLFRFAFES ITNVIFGERQ GMLEEVVNPE AQRFIDAIYQ MFHTSVPMNL LPPDLFRLFR TKTWKDHVAA WDVIFSKADI YTQNFYWELR QKGSVHHDYR GILYRLLGDS KMSFEDIKAN VTEMLAGGVD TTSMTLQWHL YEMARNLKVQ DMLRAEVLAA RHQAQGDMA MLQLVPLLKA SIKETLRLHP ISVTLQRYLV NDLVLRDYM I PAKTLVQVAI YALGREPTFF FDPENFDPTR WLSKDKNITY FRNLGFGWGV RQCLGRRIAE LEMTIFLINM LENFRVEIQH LSDVGTTFNL ILMPEKPISF TFWPFNQEAT QQ
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CYP11A1 recombinant protein	Catalyzes the side-chain cleavage reaction of cholesterol to pregnenolone.
Product Categories/Family for CYP11A1 recombinant protein	Metabolism

References

Human cholesterol side-chain cleavage enzyme, P450scc cDNA cloning, assignment of the gene to chromosome 15, and expression in the placenta.Chung B.-C., Matteson K.J., Voutilainen R., Mohandas T.K., Miller W.L.Proc. Natl. Acad. Sci. U.S.A. 83:8962-8966(1986) Gene structure of human cytochrome P-450(SCC) , cholesterol desmolase.Morohashi K., Sogawa K., Omura T., Fujii-Kuriyama Y.J. Biochem. 101:879-887(1987) Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) Analysis of the DNA sequence and duplication history of human chromosome 15.Zody M.C., Garber M., Sharpe T., Young S.K., Rowen L., O'Neill K., Whittaker C.A., Kamal M., Chang J.L., Cuomo C.A., Dewar K., FitzGerald M.G., Kodira C.D., Madan A., Qin S., Yang X., Abbasi N., Abouelleil A., Arachchi H.M., Baradarani L., Birditt B., Bloom S., Bloom T., Borowsky M.L., Burke J., Butler J., Cook A., DeArellano K., DeCaprio D., Dorris L. III, Dors M., Eichler E.E., Engels R., Fahey J., Fleetwood P., Friedman C., Gearin G., Hall J.L., Hensley G., Johnson E., Jones C., Kamat A., Kaur A., Locke D.P., Madan A., Munson G., Jaffe D.B., Lui A., Macdonald P., Mauceli E., Naylor J.W., Nesbitt R., Nicol R., O'Leary S.B., Ratcliffe A., Rounsley S., She X., Sneddon K.M.B., Stewart S., Sougnez C., Stone S.M., Topham K., Vincent D., Wang S., Zimmer A.R., Birren B.W., Hood L., Lander E.S., Nusbaum C.Nature 440:671-675(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	153218646
NCBI GeneID	1583
NCBI Accession #	NP_000772.2
NCBI GenBank Nucleotide #	NM_000781.2
UniProt Accession #	P05108; Q15081; Q16805; Q8N1A7; A8K8D5; B3KPU8; G3XAD7
Molecular Weight	72.1 kDa
NCBI Official Full Name	cholesterol side-chain cleavage enzyme, mitochondrial isoform a
NCBI Official Synonym Full Names	cytochrome P450 family 11 subfamily A member 1
NCBI Official Symbol	CYP11A1
NCBI Official Synonym Symbols	CYP11A; CYPXIA1; P450SCC
NCBI Protein Information	cholesterol side-chain cleavage enzyme, mitochondrial
UniProt Protein Name	Cholesterol side-chain cleavage enzyme, mitochondrial
UniProt Gene Name	CYP11A1
UniProt Synonym Gene Names	CYP11A
UniProt Entry Name	CP11A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

