

Cytochrome P450 1B1 Recombinant Protein | Cyp1b1 recombinant protein

Recombinant Rat Cytochrome P450 1B1

CATALOG # AAA116765	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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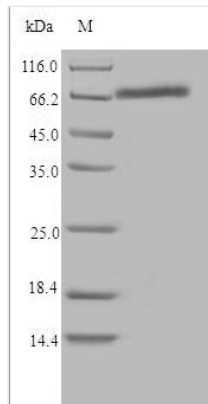
PRODUCT SYNONYMS

Cytochrome P450 1B1; Recombinant Rat Cytochrome P450 1B1; CYP1B1; Cytochrome P450RAP; Cyp1b1 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	1-543. Full Length Protein
Sequence	MATSLSADSP QQLSSLSTQQ TILLLLVSVL AIVHLGQWLL RQWRRKPWSS PPGPFWPPLI GNAASVGRAS HLYFARLARR YGDVFQIRLG SCPVVVLNGE SAIHQALVQQ GGVFADRPPF ASFRVVS GGR SLAFGHYSER WKERRRAAYG TMRAFSTRHP RSRGLLEGHA LGEARELVAV LVRRCAGGAC LDPTQPIIVA VANVMSAVCF GCRYNHDDAE FLELLSHNEE FGRTVGAGSL VDVMPWLQLF PNPVRTIFRE FEQINRNFSN FVLDKFLRHR ESLVPGAAPR DMMDAFILSA EKKATGDPGD SPSGLDLEDV PATITDIFGA SQDTLSTALL WLLILFTRYP DVQARVQ AEL DQVVGRDRLP CMSDQPNLPY VMAFLYESMR FTSFLPVTLP HATTANTFVL GYYIPKNTVV FVNQWSVNHD PAKWSNPEDF DPARFLDKDG FINKALASSV MIFSVGKRRRC IGEELSKTLL FLFISILAHQ CNFKANQNEP SNMSFSYGLS IKPKSFKIHV SLRESMKLLD SAVEKLQAE ACQ
Species	Rat
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 Cyp1b1 recombinant protein	Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, retinoid and xenobiotics. Preferentially oxidizes 17beta-estradiol to the carcinogenic 4-hydroxy derivative, and a variety of procarcinogenic compounds to their activated forms, including polycyclic aromatic hydrocarbons. Promotes angiogenesis by removing cellular oxygenation products, thereby decreasing oxidative stress, release of antiangiogenic factor THBS2, then allowing endothelial cells migration, cell adhesion and capillary morphogenesis. These changes are concomitant with the endothelial nitric oxide synthase activity and nitric oxide synthesis. Plays an important role in the regulation of perivascular cell proliferation, migration, and survival through modulation of the intracellular oxidative state and NF-kappa-B expression and/or activity, during angiogenesis. Contributes to oxidative homeostasis and ultrastructural organization and function of trabecular meshwork tissue through modulation of POSTN expression.
Product Categories/Family for Cyp1b1 recombinant protein	Metabolism
References	"Specificity determinants of CYP1B1 estradiol hydroxylation." Nishida C.R., Everett S., Ortiz de Montellano P.R. Mol. Pharmacol. 84:451-458(2013)

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978737
NCBI GeneID	25426
NCBI Accession #	NP_037072.1
NCBI GenBank Nucleotide #	NM_012940.2
UniProt Accession #	Q64678
Molecular Weight	61.9 kDa
NCBI Official Full Name	cytochrome P450 1B1
NCBI Official Synonym Full Names	cytochrome P450, family 1, subfamily b, polypeptide 1
NCBI Official Symbol	Cyp1b1
NCBI Protein Information	cytochrome P450 1B1
UniProt Protein Name	Cytochrome P450 1B1
UniProt Gene Name	Cyp1b1
UniProt Entry Name	CP1B1_RAT

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.