

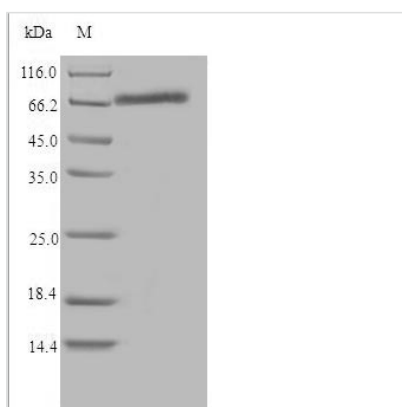


# Recombinant Rat Cytochrome P450 1B1 (Cyp1b1)

<b>Product Code</b>	CSB-EP731067RA
<b>Relevance</b>	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.
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q64678
<b>Alias</b>	CYPIB1 Cytochrome P450RAP
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MATSLSADSPQQLSSLSTQQTILLLLVSVLAIIVHLGQWLLRQWRRKPWSSPPG PFPWPLIGNAASVGRASHLYFARLARRYGDVFIQLGSCPVVVLNGESAIHQALV LVQQGGVFADRPPFASFRRVSSGGRSLAFGHYSERWKERRRAAYGTMRAFSTR RHPRSRGLLEGHALGEARELVAVLVRRRCAGGACLDPTQPIIVAVANVMSAVCF GCRYNHDDAEFLELLSHNEEFGRTVGAGSLVDVMPWLQLFPNPVRTIFREFE QINRNFSNFVLDKFLRHRESLVPGAAPRDMMDAFILSAEKKATGDPGDSPSGL DLEDVPATITDIFGASQDTLSTALLWLLILFTRYPDVQARVQAELDQVVGRDRL PCMSDQPNLPYVMAFLYESMRFTSFLPVTLPHATTANTFVLGYYPKNTVVFV NQWSVNHDPKWSNPEDFDPARFLDKDGFINKALASSVMIFSVMGKRRRCIGEEL SKTLLFLFISILAHQCNFKANQNEPSNMSFSYGLSIKPKSFKIHVSLRESMKLLD SAVEKLQAEAEACQ
<b>Lead Time</b>	Delivery time may differ from different purchasing way or location, please kindly consult your local distributors for specific delivery time.
<b>Research Area</b>	Metabolism
<b>Source</b>	E.coli



<b>Gene Names</b>	Cyp1b1
<b>Expression Region</b>	1-543aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	64.6kDa
<b>Protein Description</b>	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.