



Recombinant Dog Cytochrome P450 2E1 (CYP2E1)

Product Code	CSB-EP889011DO-B
Abbreviation	CYP2E1
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.	Q9MZY0
Product Type	Recombinant Protein
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Purity	≥85% (SDS-PAGE)
Sequence	AALGITVAL LVWMATLMLI SIWKQIYSRW KLPPGPFPLP IIGNILQVDI KNVPKSLAKL AEQYGPVFTL YLGSQRTVVL HGYKAVKEVL LDHKNDLSGR GEVFAFQSHK DRGITFNNGP GWKDRRLSL STLRDYGMGK RGNEERIQR IPFLLEALRG TRGQPFDPF LFGFAPFNVI ADILFHKHFY YSDQTGLRIQ KLFNENFHLL STGWLQLYNI FPSYLHYLPG SHRKVLNRVA ELKDYSLE KEHQESLDPT CSRDFDCLL QELQKERYGT EPWYTLDNIA VTVADLFFAG TETTSTTLRY GLLILMKYPE VEEKLHEEID RVIGPSRVPA IKDRLEMPYM DAVVHEIQRF IDLLPSNLPH VANQDTMFRG YVIPKGTVVI PTLDSVLFDK QEFDPPEKFK PEHFLNENGG FKYSDFYKAF SAGKRVCVGE GLARMEFLF LSAILQHFNL KSLVDPKID LSPCTIGFAK IPPHYKLCVV PRSG
Source	E.coli
Target Names	CYP2E1
Protein Names	Recommended name: Cytochrome P450 2E1 EC= 1.14.13.- Alternative name(s): 4-nitrophenol 2-hydroxylase EC= 1.14.13.n7 CYP11E1
Expression Region	2-494
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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 endoplasmic reticulum and is induced by ethanol, the diabetic state, and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke. Due to its



many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer.

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

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