



# Recombinant Human Cytochrome P450 1A2 (CYP1A2)

<b>Product Code</b>	CSB-YP006396HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P05177
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>ALSQSVPFSAATELLASAI FCLVFWVLKG LRPRVPKGLK SPPEPWGWPL  LGHVLTGKN PHLALSRMSQ RYGDVLQIRI GSTPVLVLSR LDTIRQALVR  QGDDFKGRPD LYTSTLITDG QSLTFSTDG PVWAARRRLA QNALNTFSIA  SDPASSSSCY LEEHVSKEAK ALISRLQELM AGPGHFDPYN QVVVSVANVI  GAMCFGQHFP ESSDEMLSLV KNTHEFVETA SSGNPLDFFP ILRYLPNPAL  QRFKAFNQRFLWFLQKTVQE HYQDFDKNSV RDITGALFKH SKKGPRASGN  LIPQEKIVNLVNDIFGAGFD TVTTAISWSL MYLVTKPEIQ RKIQKELDTV  IGRERRPRLSDRPQLPYLEA FILETFRHSS FLPFTIPHST TRDTTLNGFY  IPKKCCVFNQWQVNHDPPEL WEDPSEFRPE RFLTADGTAI NKPLSEKMML  FGMGKRRRCIG EVLAKWEIFL FLAILLQQLF FSVPPGVKVD LTPHYGLTMK  HARCEHVQAR RFSIN</p>
<b>Source</b>	Yeast
<b>Target Names</b>	CYP1A2
<b>Protein Names</b>	Recommended name: Cytochrome P450 1A2 EC= 1.14.14.1 Alternative name(s): CYP1A2 Cytochrome P(3)450 Cytochrome P450 4 Cytochrome P450-P3
<b>Expression Region</b>	2-515
<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>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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 its expression is induced by some polycyclic aromatic hydrocarbons (PAHs), some of which are found in cigarette smoke. The enzyme's endogenous substrate is unknown; however, it is able to metabolize some PAHs to carcinogenic intermediates. Other xenobiotic substrates for this enzyme include caffeine, aflatoxin B1, and acetaminophen. The transcript from this gene contains four Alu sequences flanked by direct repeats in the 3' untranslated region.



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**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.

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**Shelf Life**

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.