



Recombinant Human Cytochrome P450 1A2 (CYP1A2)

Product Code	CSB-EP006396HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P05177
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	<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 LIPQEKIVNL VNDIFGAGFD TVTTAISWSL MYLVTKPEIQ RKIQKELDTV IGRERRPRLS DRPQLPYLEA FILETFRHSS FLPFTIPHST TRDTTLNGFY IPKKCCVFN QWQVNHDPPEL WEDPSEFRPE RFLTADGTAI NKPLSEKMML FGMGKRRRCIG EVLAKWEIFL FLAILLQQLF FSVPPGVKVD LTPYGLTMK HARCEHVQAR RFSIN</p>
Source	E.coli
Target Names	CYP1A2
Protein Names	Recommended name: Cytochrome P450 1A2 EC= 1.14.14.1 Alternative name(s): CYP1A2 Cytochrome P(3)450 Cytochrome P450 4 Cytochrome P450-P3
Expression Region	2-515
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 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.



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

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.