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Datasheet for ABIN1476025

**CYP7A1 Protein (AA 1-503) (His tag)**

## Overview

Quantity:	1 mg
Target:	CYP7A1
Protein Characteristics:	AA 1-503
Origin:	Rat
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP7A1 protein is labelled with His tag.
Application:	ELISA

## Product Details

Sequence:	MMTISLIWGI AVLVSCCIWF IVGIRRRKAG EPPL ENGLIP YLGCALKFGS NPLEFLRANQ RKHGHVFTCK LMGKYVHFIT NSLSYHKVLC HGKYFDWKKF HYTTSAKAFG HRSIDPNDGN TTENINNTFT KTLQGDALCS LSEAMMQNLQ SVMRPPGLPK SKSNAWVTEG MYAFCYRVMF EAGYLTIFGR DISKTDQKA LILNNLDNFK QFDQVFPALV AGLPIHLFKT AHKAREKLAE GLKHKNLCVR DQVSELIRLR MFLNDTLSTF DDMEKAKTHL AILWASQANT IPATFWSLFQ MIRSPEAMKA ASEEVSGALQ SAGQELSSGG SAIYLDQVQL NDLPVLDSII KEALRLSSAS LNIRTAKEDF TLHLEDGSYN IRKDDMIALY PQLMHLDP EI YPDPLTFKYD RYLDESGKAK TTFYSNGNKL KCFYMPFGSG ATICPGRLFA VQEIQLIL MLSCFELEFV ESQVKCPPLD QSRAGLGILP PLHDIEFKYK LKH
Specificity:	Rattus norvegicus (Rat)
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time.

## Product Details

Purity: > 90 %

## Target Details

Target: CYP7A1

Alternative Name: Cholesterol 7-alpha-monooxygenase (Cyp7a1) ([CYP7A1 Products](#))

Background: Recommended name: Cholesterol 7-alpha-monooxygenase.  
EC= 1.14.13.17.  
Alternative name(s): CYPVII Cholesterol 7-alpha-hydroxylase Cytochrome P450 7A1

UniProt: [P18125](#)

Pathways: [Steroid Hormone Biosynthesis](#), [Carbohydrate Homeostasis](#), [Regulation of Lipid Metabolism by PPARalpha](#)

## Application Details

Comment: The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modified such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Concentration: 0.2-2 mg/mL

Buffer: Tris-based buffer, 50 % glycerol

Handling Advice: Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week

## Handling

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Storage: -20 °C

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Storage Comment: Store at -20 °C, for extended storage, conserve at -20 °C or -80 °C.