

Recombinant Human CYP3A7 protein, His-tagged

Cat. No. CYP3A7-1524H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP3A7 aa. (Pro344~Asp497) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Pro344~Asp497
Description	This gene encodes a member of the cytochrome P450 superfamily of enzymes, which participate in drug metabolism and the synthesis of cholesterol, steroids and other lipids. This enzyme hydroxylates testosterone and dehydroepiandrosterone 3-sulphate, which is involved in the formation of estriol during pregnancy. This gene is part of a cluster of related genes on chromosome 7q21.1. Naturally-occurring readthrough transcription occurs between this gene and the downstream CYP3A51P pseudogene and is represented by GenelD:100861540.
Form	Freeze-dried powder
Molecular Mass	21kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Isoelectric Point	9.3

GENE INFORMATION

Gene Name	CYP3A7 cytochrome P450 family 3 subfamily A member 7 [Homo sapiens (human)]
Official Symbol	CYP3A7
Synonyms	CYP3A7; cytochrome P450 family 3 subfamily A member 7; CP37; CYP11A7; P450-HFLA; P-450111A7; P-450(HFL33); cytochrome P450 3A7; aryl hydrocarbon hydroxylase; cytochrome P450, family 3, subfamily A, polypeptide 7; cytochrome P450, subfamily IIIA, polypeptide 7; cytochrome P450-HFLA; flavoprotein-linked monooxygenase; microsomal monooxygenase; xenobiotic monooxygenase

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Gene ID	1551
mRNA Refseq	NM_000765.4
Protein Refseq	NP_000756.3
UniProt ID	P24462
SDS-PAGE	