

Recombinant Human CYP7A1 Protein, Myc/DDK-tagged

Cat. No. CYP7A1-2425H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human cytochrome P450, family 7, subfamily A, polypeptide 1 (CYP7A1) with a C-Myc/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
Description	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 endoplasmic reticulum membrane protein catalyzes the first reaction in the cholesterol catabolic pathway in the liver, which converts cholesterol to bile acids. This reaction is the rate limiting step and the major site of regulation of bile acid synthesis, which is the primary mechanism for the removal of cholesterol from the body. Polymorphisms in the promoter of this gene are associated with defects in bile acid synthesis.
Molecular Mass	57.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

GENE INFORMATION

Gene Name CYP7A1 cytochrome P450 family 7 subfamily A member 1 [Homo sapiens (human)]

Official Symbol CYP7A1

Synonyms CYP7A1; cytochrome P450 family 7 subfamily A member 1; CP7A; CYP7; CYPVII; cytochrome P450 7A1; 24-hydroxycholesterol 7-alpha-hydroxylase; cholesterol 7-alpha-hydroxylase; cholesterol 7-alpha-monooxygenase; cholesterol 7alpha-hydroxylase; cytochrome P450, family 7, subfamily A, polypeptide 1; cytochrome P450, subfamily VIIA polypeptide 1; EC 1.14.14.23; EC 1.14.14.26

Gene ID 1581

mRNA Refseq NM_000780

Protein Refseq NP_000771

MIM 118455

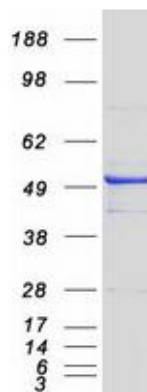
UniProt ID P22680

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