

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.

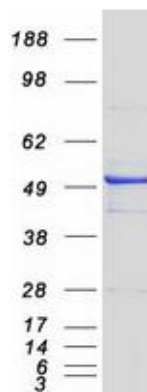
 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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