

Product datasheet for PH322647

CYP7B1 (NM_004820) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CYP7B1 MS Standard C13 and N15-labeled recombinant protein (NP_004811)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222647
Predicted MW:	58.3 kDa
Protein Sequence:	>RC222647 representing NM_004820 Red=Cloning site Green=Tags(s)

MAGEVSAATGRFSLERLGLPGLALAAALLLLALCLLVRRTRRPGEPPLIKGWLPYLGVVNLNRKDP LRFM
KTLQKQHGDFTVLLGGKYITFILD PPFQYQLVIKHNKQLSFRVFSNKLLLEKAFSISQLQKNHDMNDELHL
CYQFLQGKSLDILLESMMQNLKQVFEPQLLKTTSWDTAELYPFCSSIIIFEITFTTIYGKVI VCDNNKFIS
ELRDDFLKFDDKFAYLVSNIPIELLGNVKSIREKIIKCFSSSEKLAKMQGWSEV FQSRQDVLEKYYVHEDL
EIGAHLGLFWASVANTIPTMFWAMYLLRHPEAMAAVRDEIDRLLQSTGQKKGSGFPIHLTREQLDSL I
CLESSIFEALRLSSYSTTIRFVEEDLTL SSETGDYCVRKGD LVAIFPPVLHGDPEIFEAPEEFYDRFIE
DGKKKTTFFKRGKLLKCYLMPFGTGT SKCPGRFFALMEIKQLLVILLTYFDLEIIDDKPIGLNYSRLLFG
IQYPDSDVLF RYKVKVS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_004811</u>
RefSeq Size:	2395
RefSeq ORF:	1518



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Synonyms: CBAS3; CP7B; SPG5A

Locus ID: 9420

UniProt ID: [O75881](#), [Q05C57](#)

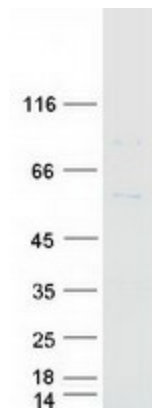
Cytogenetics: 8q12.3

Summary: 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 of extrahepatic tissues, which converts cholesterol to bile acids. This enzyme likely plays a minor role in total bile acid synthesis, but may also be involved in the development of atherosclerosis, neurosteroid metabolism and sex hormone synthesis. Mutations in this gene have been associated with hereditary spastic paraplegia (SPG5 or HSP), an autosomal recessive disorder. [provided by RefSeq, Apr 2016]

Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Primary bile acid biosynthesis

Product images:



Coomassie blue staining of purified CYP7B1 protein (Cat# [TP322647]). The protein was produced from HEK293T cells transfected with CYP7B1 cDNA clone (Cat# [RC222647]) using MegaTran 2.0 (Cat# [TT210002]).