

Product datasheet for TP322647M

OriGene Technologies, Inc.

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CYP7B1 (NM 004820) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human cytochrome P450, family 7, subfamily B, polypeptide 1

(CYP7B1), 100 µg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC222647 representing NM_004820

or AA Sequence: Red=Cloning site Green=Tags(s)

MAGEVSAATGRFSLERLGLPGLALAAALLLLALCLLVRRTRRPGEPPLIKGWLPYLGVVLNLRKDPLRFM KTLQKQHGDTFTVLLGGKYITFILDPFQYQLVIKNHKQLSFRVFSNKLLEKAFSISQLQKNHDMNDELHL CYQFLQGKSLDILLESMMQNLKQVFEPQLLKTTSWDTAELYPFCSSIIFEITFTTIYGKVIVCDNNKFIS ELRDDFLKFDDKFAYLVSNIPIELLGNVKSIREKIIKCFSSEKLAKMQGWSEVFQSRQDVLEKYYVHEDL EIGAHHLGFLWASVANTIPTMFWAMYYLLRHPEAMAAVRDEIDRLLQSTGQKKGSGFPIHLTREQLDSLI

CLESSIFEALRLSSYSTTIRFVEEDLTLSSETGDYCVRKGDLVAIFPPVLHGDPEIFEAPEEFRYDRFIE DGKKKTTFFKRGKKLKCYLMPFGTGTSKCPGRFFALMEIKQLLVILLTYFDLEIIDDKPIGLNYSRLLFG

IQYPDSDVLFRYKVKS

58.1 kDa

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW:

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.





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Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: <u>NP 004811</u>

Locus ID: 9420

UniProt ID: <u>075881</u>, <u>Q05C57</u>

RefSeq Size: 2395 Cytogenetics: 8q12.3 RefSeq ORF: 1518

Synonyms: CBAS3; CP7B; SPG5A

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

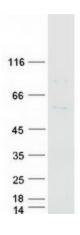
have been associated with hereditary spastic paraplegia (SPG5 or HSP), an autosomal

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]).