

Product datasheet for PH317236

Cytochrome P450 2B6 (CYP2B6) (NM_000767) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CYP2B6 MS Standard C13 and N15-labeled recombinant protein (NP_000758)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217236
Predicted MW:	56.1 kDa
Protein Sequence:	>RC217236 representing NM_000767 Red=Cloning site Green=Tags(s)

MELSVLLFLALLTGLLLLLVQCHPNTHDRLPPGPRPLPLLGNLLQMDRRGLLKSFLRFREKYGDVFTVHL
GPRPVVMLCGVEAIREALVDKAEAFSGRGKIAMVDPFFRGGYGVIFANGNRWKVLRFRSVTTMRDFGMGKR
SVEERIQEEAQCLIEELRKSFGALMDPTFLFQISITANIICSIIVFGKRFHYQDQEFKMLNLFYQTFSLIS
SVFGQLFELFSGFLKYFPGAHRQVYKNLQEIINAYIGHVSVEKHRETLDPSAPKDLIDTYLLHMEKEKSNH
SEFSHQNLNLTLSLFFAGTETTSTTLRYGFLMLKYPHVAERVYREIEQVIGPHRPPELHDKAMPYTE
AVIYEIQRFSDLLPMGVPHIVTQHTSFRGYIIPKDTEVFLILSTALHDPHYFEKPDFAFPDHFLLDANGAL
KKTEAFIPFSLGKRICLGEIARAELFLFFTTILQNFMSASPVAPEDIDLTPQECGVGKIPPTYQIRFLP
R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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_000758</u>
RefSeq Size:	3052
RefSeq ORF:	1473



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Synonyms: CPB6; CYP2B; CYP2B7; CYP2B7P; CYP11B6; EFVM; IIB1; P450

Locus ID: 1555

UniProt ID: [P20813](#)

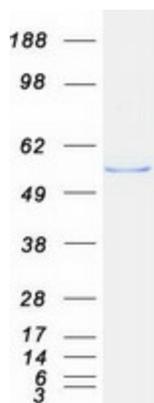
Cytogenetics: 19q13.2

Summary: This gene, CYP2B6, 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 protein localizes to the endoplasmic reticulum and its expression is induced by phenobarbital. The enzyme is known to metabolize some xenobiotics, such as the anti-cancer drugs cyclophosphamide and ifosphamide. Transcript variants for this gene have been described; however, it has not been resolved whether these transcripts are in fact produced by this gene or by a closely related pseudogene, CYP2B7. Both the gene and the pseudogene are located in the middle of a CYP2A pseudogene found in a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, P450

Protein Pathways: Arachidonic acid metabolism, Drug metabolism - cytochrome P450, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism

Product images:



Coomassie blue staining of purified CYP2B6 protein (Cat# [TP317236]). The protein was produced from HEK293T cells transfected with CYP2B6 cDNA clone (Cat# [RC217236]) using MegaTran 2.0 (Cat# [TT210002]).