

Product datasheet for PH320997

Cytochrome P450 2C9 (CYP2C9) (NM_000771) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CYP2C9 MS Standard C13 and N15-labeled recombinant protein (NP_000762)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220997
Predicted MW:	55.4 kDa
Protein Sequence:	>RC220997 representing NM_000771 Red=Cloning site Green=Tags(s)

MDSLVLVLCCLLLLLSLWRQSSGRGLPPGPTPLPVIGNILQIGIKDISKSLTNLSKVYGPVFTLYFG
LKPVVVLHGVEAVKEALIDLGEFSGRGIFPLAERANRGGIVFSNGKKWKEIRRFSLMTRLNFGMGKRS
IEDRVQEEARCLVEELRKTASPCDPTFILGCAPCNVICSIIIFHKRFDYKDQQFLNLMKLNENIKILSS
PWIQICNNFSPIIDYFPGTHNKLKNAVFMKSYILEKVKEHQESMDMNNPQDFIDCFMKMEKEKHNPQS
EFTIESLENTAVDLFGAGTETTSTLRYALLLLKHPEVTAKVQEEIERVIGRNRSPCMQDRSHMPYDA
VVHEVQRYIDLLPTSLPHAVTCDIKFRNYLIPKGTTLISLTSVLHNDKEFPNPEMFDPHHFLDEGGNFK
KSKYFMPFSAGKRICVGEALAGMELFLFLTSILQNFNLKSLVDPKNLDTTPVVNGFASVPPFYQLCFIPV

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_000762</u>
RefSeq Size:	1835
RefSeq ORF:	1470
Synonyms:	CPC9; CYP2C; CYP2C10; CYPIIC9; P450IIC9



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Locus ID: 1559

UniProt ID: [P11712](#), [S5RV20](#)

Cytogenetics: 10q23.33

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 protein localizes to the endoplasmic reticulum and its expression is induced by rifampin. The enzyme is known to metabolize many xenobiotics, including phenytoin, tolbutamide, ibuprofen and S-warfarin. Studies identifying individuals who are poor metabolizers of phenytoin and tolbutamide suggest that this gene is polymorphic. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, P450

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

Product images:



Coomassie blue staining of purified CYP2C9 protein (Cat# [TP320997]). The protein was produced from HEK293T cells transfected with CYP2C9 cDNA clone (Cat# [RC220997]) using MegaTran 2.0 (Cat# [TT210002]).