

## Product datasheet for TP320997L

### Cytochrome P450 2C9 (CYP2C9) (NM\_000771) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cytochrome P450, family 2, subfamily C, polypeptide 9 (CYP2C9), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC220997 representing NM_000771 Red=Cloning site Green=Tags(s)

MDSLVLVLCLSCLLLLSLWRQSSGRGKLP PGPTPLPVIGNILQIGIKDISKSLTNLSKVYGPVFTLYFG  
LKPIVLHGYEAVKEALIDLGEFSGRGIFPLAERANRFGIVFSNGKKWKEIRRFSLMTRLNFGMGKRS  
IEDRVQEEARCLVEELRKT KASPCDPTFILGCAPCNVICSIIFHKRFDYKDQQFLNLMKLNENIKILSS  
PWIQICNNFSPIIDYFPGTHNKLLKNVAFMKSYLEKVKEHQESMDMNNPQDFIDCFLMKMEKEKHNPQS  
EFTIESLENTAVDLFGAGTETTSTTLRYALLLLKHPEVTAKVQEEIERVIGRNRSPCMQDRSHMPYTDA  
VWHEVQRYIDLPTSLPHAVTCDIKFRNYLIPKGTILISLTSVLHDNKEFPNPEMFDPHHFLDEGGNFK  
KSKYFMPFSAGKRICVGEALAGMELFLFLTSILQNFNLKSLVDPKNLDTTPVNVNGFASVPPFYQLCFIPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	55.4 kDa
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.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_000762](#)

Locus ID: 1559

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

RefSeq Size: 1835

Cytogenetics: 10q23.33

RefSeq ORF: 1470

Synonyms: CPC9; CYP2C; CYP2C10; CYP11C9; P450IIC9

**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]).