

## Product datasheet for PH311377

### Cytochrome p450 2C19 (CYP2C19) (NM\_000769) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CYP2C19 MS Standard C13 and N15-labeled recombinant protein (NP_000760)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211377
Predicted MW:	55.8 kDa
Protein Sequence:	>RC211377 representing NM_000769 Red=Cloning site Green=Tags(s)

MDFPVVLVLCLSCLLLL SIWRQSSGRGLPPGPTPLPVIGNILQIDIKDVKSLTNLSKIYGPVFTLYFG  
LERMVVLHGVEVVEALIDLGEFSGRGHFPLAERANRFGIVF SNGKRWKEIRRFSLMTRLRNF GMGKRS  
IEDRVQEEARCLVEELRKTASPCDPTF ILGCAPCNVICSIIIFQKRFDYKDQQFLNLMKLNENIRIVST  
PWIQICNNFPTIIDYFPGTHNKLKLNLA FMESDILEKVKEHQESMDINNPRDFIDCFLIKMEKEKQSQS  
EFTIENLVITAADLLGAGTETTSTLRYALLLLKHPEVTAKVQEEIERVVGRNRSPCMQDRGHMPYTD  
VVHEVQRYIDL IPTSLPHAVTCDVKFRNYLIPKGTITL TSLT SVLHDNKEFPNPEMFDPRHFLDEGGNFK  
KSNYFMPFSAGKRICVGEGLARMELFLFLTFILQNFNLKSLIDPKDLDTTPVVNGFASVPPFYQLCFIPV

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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_000760</u>
RefSeq Size:	1473
RefSeq ORF:	1470
Synonyms:	CPCJ; CYP2C; CYPIIC17; CYPIIC19; P450C2C; P450IIC19



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Locus ID: 1557

UniProt ID: [P33261](#)

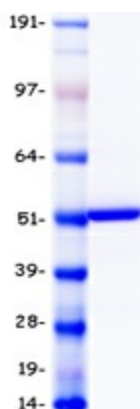
Cytogenetics: 10q23.33

**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 is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, omeprazole, diazepam and some barbiturates. Polymorphism within this gene is associated with variable ability to metabolize mephenytoin, known as the poor metabolizer and extensive metabolizer phenotypes. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**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 CYP2C19 protein (Cat# [TP311377]). The protein was produced from HEK293T cells transfected with CYP2C19 cDNA clone (Cat# [RC211377]) using MegaTran 2.0 (Cat# [TT210002]).