

## Product datasheet for TP311377

### Cytochrome p450 2C19 (CYP2C19) (NM\_000769) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant protein of human cytochrome P450, family 2, subfamily C, polypeptide 19 (CYP2C19), 20 µg  |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC211377 representing NM_000769<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)  |
|                                       | <p>MDPFVVLVLCLSCLLLLSIWRQSSGRGKLP PGPTPLPVIGNILQIDIKDVSLSLTNLSKIYGPVFTLYFG<br/>LERMVVLHGYEVVKEALIDLGEFSGRGHFPLAERANRGFGIVFSNGKRWKEIRRFSLMTLRNFGMGKRS<br/>IEDRVQEEARCLVEELRKT KASPCDPTFILGCAPCNVICSIIFQKRFDYKDQQLNLMEKLNENIRIVST<br/>PWIQICNNFPTIIDYFPGTHNKLLKNLAFMESDILEKVKEHQESMDINNPRDFIDCFLIKMEKEKQNQQS<br/>EFTIENLVITAADLLGAGTETTSTLRYALLLLKHPEVTAKVQEEIERVGRNRSPCMQDRGHMPYDA<br/>VHEVQRYIDLIPSTLPHAVTCDVKFRNYLIPKGTILTSLTSLVLDHNKEFPNPEMFDRHFLDEGGNFK<br/>KSNYFMPFSAGKRICVGEGLARMELFLFTLILQNFNLKSLIDPKDLDTTPVNGFASVPPFYQLCFIPV</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| Tag:                                  | C-Myc/DDK   |
| Predicted MW:                         | 55.8 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\\_000760](#)

Locus ID: 1557

UniProt ID: [P33261](#)

RefSeq Size: 1473

Cytogenetics: 10q23.33

RefSeq ORF: 1470

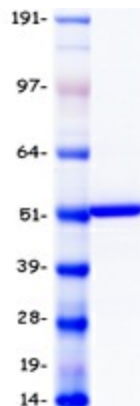
Synonyms: CPCJ; CYP2C; CYPIIC17; CYPIIC19; P450C2C; P450IIC19

**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]).