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# California Bioscience

## Product Datasheet

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|---|---|
| **Product Name** | Cytochrome P450 2D6 Human Recombinant |
| **Cata No** | CB500493 |
| **Source** | *Sf9 insect cells.* |
| **Synonyms** | Cytochrome P450 2D6, EC 1.14.14.1, CYPIID6, P450-DB1, Debrisoquine 4-hydroxylase, CYP2D6, CPD6, CYP2D, CYP2D@, CYP2DL1, P450C2D, MGC120389, MGC120390, LKM1, liver/kidney microsomal antigen 1. |

### Description

Cytochrome P450 2D6 is a member of a complex family of microsomal enzymes (mono-oxygenases) present in the endoplasmic reticulum membrane, which perform detoxification reaction on xenobiotic compounds. Cytochrome P450 2D6 is the molecular target of autoantibodies against the "liver kidney microsomal antigen 1" (LKM 1) which has been classically defined by immunofluorescence microscopy. The presence of these autoantibodies is considered indicative of Autoimmune Hepatitis Type 2; LKM 1 antibodies have also been detected in patients with hepatitis C viral infection. The International Autoimmune Hepatitis Group therefore has subdivided the AIH type 2 into two subgroups: 2a with HCV and 2b without HCV. AIH 2a patients are often over 40 and predominantly male.
The use of a purified recombinant Cytochrome P450 2D6 antigen allows the differentiation of autoimmune hepatitis from drug-induced hepatitis where transient autoantibodies to other P450 family members occur which cannot be differentiated by immunofluorescence techniques.
Cytochrome P450 2D6 Human Recombinant (also called liver/kidney microsomal antigen 1) produced in SF9, is a glycosylated, polypeptide chain having a molecular mass of 55,801 Dalton.
The LKM1 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered liquid formulation.

### Purity

Greater than 40% as determined by SDS-PAGE.

### Formulation

LKM-1 is supplied at a concentration of 1mg/ml in 16mM sodium phosphate buffer pH-7.6, 400mM sodium chloride, 0.08mM KI and 20% glycerol.

### Applications

Western-Blot with monoclonal anti-LKM-1 antibody and autoimmune hepatitis patient sera.

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