10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Cytochrome P450 2D6, human recombinant protein

Cytochrome P450 2D6, CYPIID6, P450-DB1, Debrisoquine 4-hydroxylase, CYP2D6, CPD6, CYP2D, CYP2DL1, P4

Catalog # PBV11415r

Specification

Cytochrome P450 2D6, human recombinant protein - Product info

Primary Accession	P10635
Concentration	**Lot specific**
Calculated MW	**55 kDa KDa**

Cytochrome P450 2D6, human recombinant protein - Additional Info

Gene ID	**1565**
Gene Symbol	**CYP2D6**

Other Names
Cytochrome P450 2D6, CYPIID6, P450-DB1, Debrisoquine 4-hydroxylase, CYP2D6, CPD6, CYP2D, CYP2DL1, P450C2D, MGC120389, MGC120390, LKM1, liver/kidney microsomal antigen 1

Gene Source	**Human**
Source	**Sf9 Insect cells**
Assay&Purity	**SDS-PAGE; Glycosylated, so purity ≥40%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**

Target/Specificity
Cytochrome P450 2D6

Application Notes
In 50 mM Potassium phosphate buffer pH 7.5, 15% glycerol, 1 mM DTT and 1% Triton X-100

Format
Liquid

Storage
-20°C; Sterile filtered, 50 mM Potassium phosphate buffer pH 7.5, 15% glycerol, 1 mM DTT and 1% Triton X-100

Cytochrome P450 2D6, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety

- Cell Culture

Cytochrome P450 2D6, human recombinant protein - Images

Cytochrome P450 2D6, human recombinant protein - Background

Cytochrome P450 2D6 is a member of a family of microsomal enzymes (mono-oxygenases) present in the endoplasmic reticulum membrane, which detoxify xenobiotic compounds. Cytochrome P450 2D6 is the molecular target of autoantibodies against the "liver kidney microsomal antigen 1" (LKM 1) which has been classically studied 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 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 protein - References

Gonzalez F.J.,et al.Genomics 2:174-179(1988).
Gonzalez F.J.,et al.Nature 331:442-446(1988).
Kimura S.,et al.Am. J. Hum. Genet. 45:889-904(1989).
Gaedigk A.,et al.Pharmacogenomics J. 5:173-182(2005).
Gaedigk A.,et al.Pharmacogenomics J. 5:276-276(2005).