

# CYP2D6, human recombinant

**CATALOG #:** 7870-5 5 µg  
7870-20 20 µg  
7870-1000 1 mg

**ALTERNATIVE NAMES:** Cytochrome P450 2D6, CYP2D6, P450-DB1, Debrisoquine 4-hydroxylase, CYP2D6, CPD6, CYP2D, CYP2DL1, P450C2D, MGC120389, MGC120390, LKM1, liver/kidney microsomal antigen 1

**SOURCE:** *Sf9 Insect cells*

**PURITY:** ≥ 95% by SDS-PAGE

**FORM:** Liquid

**FORMULATION:** Sterile filtered in 17 mM HEPES, pH 7.5, 425 mM NaCl, 1 mM DTT, 1% Triton X-100 and 15% Glycerol.

**MOL. WT.:** ~60 kDa

**STORAGE:** Store at 4 °C if the entire vial will be used within 2-4 weeks. Aliquot and store at -20 °C for longer shelf-life. Avoid repeated freezing and thawing cycles.

**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.

**APPLICATIONS:**

1. Binds IgG-type human auto-antibodies.
2. Can be used as a standard for ELISAs (checker-board analysis of positive and negative samples).
3. Western-Blot with monoclonal anti-LKM-1 antibody and anti-LKM-1 autoantibody positive sample.
4. Immunodot analysis with positive and negative samples.

**RELATED PRODUCTS:**

- Cytochrome c (**Cat. No. 2120**)
- Cytochrome P450 Antibody (**Cat. No. 3084R-100**)
- Cytochrome P450 Blocking Peptide (**Cat. No. 3084RBP-50**)

***For Research Use Only! Not to be used in humans.***