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LKM 1 / Cytochrome P450 2D6 Recombinant Human

Catalog No.	CRL308A	**Quantity:**	5 µg
	CRL308B		20 µg
	CRL308C		1 mg

Source: Sf9 insect cells.

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.

Recombinant Human Cytochrome P450 2D6, also called liver/kidney microsomal antigen 1 is produced in SF9 is a glycosylated, polypeptide chain having a MW of 55.801 kDa.

Appearance: Sterile filtered liquid formulation.

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

Immunological Functions:
1. Binds IgG-type human autoantibodies.
2. Standard ELISA test (checkerboard analysis of positive/negative sera panels, including international reference serum NIBSC 66/387).

Purity: Greater than 40% (SDS-PAGE).

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

Coating Concentration: 0.35-0.6 µg/ml (depending on the type of ELISA plate and coating buffer).
Suitable for biotinylation and iodination.

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