

FTCD

Recombinant Human Formiminotransferase Cyclodeaminase His

Catalog No.	CRL306A	Quantity:	5 µg
	CRL306B		20 µg
	CRL306C		1.0 mg

Alternate Names: LCHC1, formimidoyltransferase cyclodeaminase

Description: Recombinant Human Formiminotransferase Cyclodeaminase 1 produced in SF9 is a glycosylated, polypeptide chain having a MW of 59.749 kDa. Recombinant LC-1 is expressed with a -6xHis tag.
Formiminotransferase cyclodeaminase, a bifunctional enzyme of tetrahydrofolate synthesis, is the target antigen of anti-LC1 (liver cytosol antigen type 1) autoantibodies. Presence of LC1 autoantibodies is a marker for type 2 autoimmune hepatitis (for which anti-LKM 1/cytochrome P450 2D6 autoantibodies are a further marker). Serum LC1 autoantibody concentrations appear to fluctuate in parallel with aminotransferase levels, a particularly intriguing observation that suggests a possible role of LC1 autoreactivity in the pathogenic mechanism leading to hepatocyte injury.

Gene ID: 10841

Source: Sf9 insect cells

Formulation: Sterile filtered liquid formulation. Recombinant Human LC-1 is supplied at a of 0.5 mg/ml in 16 mM HEPES buffer pH 7.6, 240 mM sodium chloride, and 20% glycerol.

Notes:

Immunological Functions:

1. Binds IgG-type human autoantibodies.
2. Standard ELISA test (checkerboard analysis of positive/negative sera panels, immunodot test).

Applications:

Western-Blot with monoclonal anti-hexa-His-tag antibody and autoimmune hepatitis (AIH II) patient sera.

Coating Concentration:

0.35-0.7 µg/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.

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